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OFFICIAL REGISTER OF PRINCETON UNIVERSITY

[*Entered as second-class matter, December 23, 1909, at the Post Office at Princeton, N. J., under the Act of July 16, 1894.*]

Issued twice a month during December, January, February, March and April, and monthly in May and September.

These publications include:

The Catalogue of the University.

The Undergraduate Announcement.

The Reports of the President and the Treasurer.

The Descriptive Booklet.

The announcements of the several Departments, relating to the work of the next year. These are made as accurate as possible, but the right is reserved to make such changes in detail as circumstances may require.

The current number of any of these publications may be obtained by application to the Secretary of the University, Princeton, New Jersey.

# CATALOGUE

OF

# PRINCETON UNIVERSITY

ONE HUNDRED AND SEVENTY-SECOND YEAR

## 1918-1919

PUBLISHED BY THE UNIVERSITY
PRINCETON, NEW JERSEY
1918

## NOTE

In the interest of economy in paper and printing, the present edition of the University Catalogue is reduced in contents. Fuller descriptions of courses, equipment and buildings may be found in earlier editions of the Catalogue, which are obtainable by applying to the

Secretary of the University

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## OFFICE HOURS

THE PRESIDENT OF THE UNIVERSITY: Nassau Hall, 11 A. M. to 1 P. M. daily.

THE TREASURER OF THE UNIVERSITY: Stanhope Hall, 9 A. M. to 4.30 P. M.; Saturdays, 9 A. M. to 12.30 P. M.

THE SECRETARY OF THE UNIVERSITY: Nassau Hall, 9 A. M. to 4.30 P. M.; Saturdays, 9 A. M. to 12.30 P. M.

THE REGISTRAR OF THE UNIVERSITY: Nassau Hall, 8.30 A. M. to 4.30 P. M.; Saturdays, 8.30 A. M. to 12.30 P. M.

THE SECRETARY OF BUSINESS ADMINISTRATION, THE SUPERINTENDENT OF GROUNDS AND BUILDINGS, THE UNIVERSITY POWER COMPANY, AND THE PURCHASING DEPARTMENT: Stanhope Hall, 9 A. M. to 4.30 P. M.; Saturdays, 9 A. M. to 12.30 P. M.

THE DEAN OF THE GRADUATE SCHOOL: Nassau Hall. Office open from 9 A. M. to 5 P. M.; Saturdays, 9 A. M. to 12 M.; July 1 to September 1, 9 A. M. to 12 M. Office hours of the Dean, 12 M. to 1 P. M. daily, except Saturday.

THE DEAN OF THE FACULTY: Dean's House, 1.30 to 2.30 P. M. daily, except Saturday.

THE DEAN OF THE COLLEGE: Nassau Hall, 2 to 3 P. M. daily, except Saturday.

THE CLERK OF THE FACULTY AND THE EDITOR OF THE GENERAL BIOGRAPHICAL CATALOGUE: Nassau Hall, 9 A. M. to 4.30 P. M.; Saturdays, 9 A. M. to 12.30 P. M.

THE COMMITTEE ON ENTRANCE, Professor Buffum, Secretary: 60 Hodge Road, 1.00 P. M. daily.

THE COMMITTEE ON EXAMINATIONS AND STANDING, DEAN W. F. MAGIE, Chairman: Dean's House, 1.30 to 2.30 P. M., daily, except Saturday. F. L. Hutson, Recording Secretary, Registrar's Office.

THE COMMITTEE ON OUT-DOOR SPORTS, Professor McClenahan, Chairman: The Palmer Physical Laboratory, Room 207, 12.30 to 1 P. M. Mondays and Tuesdays; 12 M. to 1 P. M. Wednesdays, Thursdays and Fridays; or at the office of the Dean of the College, 2 to 3 P. M. daily, except Saturday.

THE COMMITTEE ON NON-ATHLETIC ORGANIZATIONS, Professor D. C. Stuart, Secretary: Room 208, Nassau Hall, 4 to 5 P. M. Mondays.

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For catalogues and other numbers of the OFFICIAL REGISTER of Princeton University apply to the Secretary of the University, Princeton, New Jersey.

For information concerning entrance and courses of instruction apply to the Registrar of the University, Princeton, New Jersey.

For information concerning the Graduate School apply to the Dean of the Graduate School, Princeton, New Jersey.

# CALENDAR

## 1918

*Sept.. 10-24.* Examinations for removal of first and second term Class F conditions.

*Sept. 16-19.* Examinations for admission, held in Princeton only.

*Sept. 24.* Formal opening exercises. Marquand Chapel, 3 P. M.

*Sept. 30.* Last day for registration of Graduate Students. Office of the Dean of the Graduate School, Nassau Hall.

*Oct. 1.* Induction of Students' Army Training Corps.

*Oct. 10-12.* First part of examination for the degree of Doctor of Philosophy.

*Oct. 22.* Commemoration Day.

*Oct. 24.* Fall meeting of the Board of Trustees.

*Nov. 28.* Thanksgiving Day.

*Dec. 21.* Afternoon. First term ends. Christmas vacation begins.

## 1919

*Jan. 6.* Second term begins 10.30 A. M.

*Jan. 9.* Meeting of the Board of Trustees.

*Feb. 22.* Washington's Birthday. Class of 1876 Prize Debate.

*Mar. 1.* Last day for receiving applications for Fellowships and Graduate Scholarships

*Mar. 5.* Stated meeting of the Faculty Committee on the Course of Study.

*Mar. 29.* Second term ends.
*April 2.* Third term begins.
*April 10.* Meeting of the Board of Trustees.
*April 17.* 1.30 P. M. to April 21, 11.30 A. M. Easter Recess.
*May 8-10.* First part of examination for degree of Doctor of Philosophy.
*June 12.* Last day for receiving applications for the Master's degree.
*June 16.* Meeting of the Board of Trustees.
*June 16-21.* College Entrance Board Examinations for admission, held in Princeton and elsewhere.
*June 17.* Commencement Day.
*Sept. 15-18.* Examinations for admission, held in Princeton only
*Sept. 23.* Formal opening exercises, Marquand Chapel, 3 P. M.

## Stated Meetings

The stated meetings of the Board of Trustees are held on the fourth Thursday in October, on the second Thursdays of January and April, and on the Monday before Commencement.

Meetings of the Board, 1918-19; October 24, January 9, April 10, June 16.

The University Faculty meets at 5 P. M. on the first and third Mondays of each month during the academic year except when the University is not in session. It also meets immediately after the formal exercises on the opening day in September.

Faculty Meetings, 1918-19: September 24, October 7, 21, November 4, 18, December 2, 16, January 6, 20, February 3, 17, March 3, 17, April 7, 21, May 5, 19, June 2, 16.

### JULY, 1918

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Days upon which the University is not in session are *italicized.*

# PART I

# OFFICERS OF THE UNIVERSITY



# TRUSTEES OF THE UNIVERSITY

THE GOVERNOR OF THE STATE OF NEW JERSEY, *ex-officio*, PRESIDENT OF THE BOARD OF TRUSTEES.

JOHN GRIER HIBBEN, PH.D., LL.D., LITT.D., PRESIDENT OF THE UNIVERSITY and, in the absence of the Governor, President of the Board.

## LIFE TRUSTEES

HON. JOHN AIKMAN STEWART, LL.D.
SENIOR TRUSTEE ..... New York, N. Y.
M. TAYLOR PYNE, L.H.D. ..... Princeton, N. J.
GEORGE B. STEWART, D.D., LL.D. ..... Auburn, N. Y.
CYRUS H. McCORMICK, A.M. ..... Chicago, Ill.
JOHN DIXON, D.D. ..... Trenton, N. J.
MELANCHTON W. JACOBUS, D.D. ..... Hartford, Conn.
HON. BAYARD HENRY, A.M. ..... Philadelphia, Pa.
SIMON J. McPHERSON, D.D. ..... Lawrenceville, N. J.
HENRY W. GREEN, A.M., LL.B. ..... Trenton, N. J.
ALEXANDER VAN RENSSELAER, A.M. .. Philadelphia, Pa.
ARCHIBALD D. RUSSELL, A.M. ..... Princeton, N. J.
JOHN DEWITT, D.D., LL.D. ..... Princeton, N. J.
ROBERT GARRETT, B.S. ..... Baltimore Co., Md.
HENRY B. THOMPSON, B.S. ..... Greenville, Del.
JOSEPH B. SHEA, A.B. ..... Pittsburgh, Pa.
EDWARD W. SHELDON, A.M. ..... New York, N. Y.
PARKER D. HANDY, A.B. ..... New York, N. Y.
*JOHN M. T. FINNEY, M.D. ..... Baltimore, Md.
WILLIAM COOPER PROCTER, B.S. ..... Cincinnati, Ohio
CHARLES SCRIBNER, A.B. ..... Morristown, N. J.
JOHN O. H. PITNEY, A.M. ..... Morristown, N. J.
WILLIAM C. OSBORN, LL.D. ..... New York, N. Y.
HENRY C. FRICK ..... Pittsburgh, Pa.
LOUIS D. RICKETTS, D.Sc. ..... Warren, Ariz.
KNOX TAYLOR, B.S. ..... High Bridge, N. J.

* Absent in war service.

## ALUMNI TRUSTEES

WILSON FARRAND, LL.D. .....South Orange, N. J.
(Term expires June, 1919)
HENRY S. JOHNSON, A.B. .....Cleveland, O.
(Term expires June, 1920)
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Captain, U. S. Infantry, A. E. F.
Wounded in action, September 4, 1918.

WILLIAM ORR McCONNELL
Private, 26 U. S. Infantry, A. E. F.
Killed in action, July 20, 1918.

HARRY BRUCE WALLACE
Private, 20th Battalion, Middlesex Regiment, B. E. F.
Wounded in action, March 1918; prisoner in German camp.

GEORGE WRIGHT GLOVER, D. S. O.
Second Lieutenant, 2nd Battalion, Rifle Brigade, B. E. F.
Wounded in action September 1916; received D. S. O.;
Wounded in action August 31, 1918;
Died September 1, 1918.

EDWARD ADDISON STEVENS
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Missing in action since June 1918.

WILLIAM ALEXANDER FLEET
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*Preceptorial:* PROFESSOR SHIPMAN, Chairman; PROFESSORS BLAU, HARPER, R. B. C. JOHNSON, D. R. STUART, VAN NEST, WERTENBAKER (Secretary).

*Sanitation:* (Advisory to the Trustee Committee on Grounds and Buildings) PROFESSORS CONKLIN, LOOMIS, MR. WINTRINGER.

*Honorary Degrees:* PROFESSORS CAPPS, MUNRO, SCOTT.

*Bureau of Municipal Information:* PROFESSORS CONSTANT, KEMMERER, HULETT, MUNRO, PATON, PHILLIPS, DR. RICHARDSON, MR. WINTRINGER.

## ADVISORY COUNCIL OF THE FACULTY

PRESIDENT HIBBEN, Chairman; PROFESSORS ABBOTT, CONKLIN, CONSTANT, FETTER, FINE, FITE, GAUSS, MCCAY, MARQUAND, MUNRO, OSGOOD, RAYCROFT, RUSSELL, SCOTT.

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# PART II

# HISTORY AND GOVERNMENT OF THE UNIVERSITY

# HISTORY AND GOVERNMENT OF THE UNIVERSITY

At the beginning of the eighteenth century there were but three institutions of higher learning in the colonies: Harvard and Yale in New England and the College of William and Mary in Virginia.

In 1739 a movement was set on foot by the Synod of Philadelphia to establish a college in the Middle Colonies and a committee was appointed to carry out the plan; but, the time not being propitious, the project was laid aside without any material progress. In the meantime, the Log College, founded in 1726 near the Forks of Neshaminy, Pennsylvania, by the Rev. William Tennent, Sr., a graduate of Edinburgh University and a member of the Synod of Philadelphia, had been successfully conducted as a school for candidates for the ministry. Mr. Tennent died in 1746, and at that time the project for the erection of a college, to rank with Harvard, Yale, and William and Mary, was again taken up by its adherents, who had withdrawn from the Synod of Philadelphia and had formed the Synod of New York. The project was successfully carried out and a charter was granted to the applicants, passing the great seal of the Province of New Jersey on October 22, 1746, attested by Acting Governor John Hamilton, of His Majesty's Council. The original trustees named in this instrument were Messrs. William Smith, Peter Van Brugh Livingston, and William Peartree Smith, and the Reverends Jonathan Dickinson, John Pierson, Ebenezer Pemberton, and Aaron Burr. By the terms of the charter these seven trustees were empowered to choose five others to complete

the Board; and, knowing the hearty favor with which the friends of the Log College viewed the movement, they elected the Reverends Gilbert Tennent, William Tennent, Jr., Samuel Blair, and Samuel Finley, graduates of the Log College, and Richard Treat, graduate of Yale College, who lived at Abington, near the Log College, to fill the vacancies.

The charter of 1746 is not of record, although a memorandum of its grant appears among the records of charters and commissions in the office of the Secretary of State at Trenton, New Jersey, and its substance is set forth in an advertisement which appeared in the *Pennsylvania Gazette* of August 13, 1747.

In the summer of 1747 Jonathan Belcher, Esq., the newly appointed Governor of New Jersey, arrived in the Colony and at once manifested the deepest interest in the infant college. The original charter not being entirely satisfactory, Governor Belcher granted a second, which passed the seal of the Province on September 14, 1748. This second charter had been sought by the original Trustees in order to increase their number, to give other religious communions a share in the administration, and to make the lay trustees equal in number to the clerical. Numerous doubts, besides, had been expressed as to the validity of the first charter. The interest taken by Governor Belcher in the affairs of the institution and the wise forethought of its founders, by the execution of the second and more comprehensive document, effectually removed all doubts as to the validity of their powers. After the Revolution this charter was confirmed and renewed by the Legislature of the State of New Jersey.

Upon the granting of the first charter measures had at once been taken to open the College, and on February 2, 1747, a notice appeared in the *New York Gazette Revived in the Weekly Post Boy,* notifying "any Person or Persons who are qualified by preparatory Learning for Admission,

that some time in May next at latest, they may be there admitted to an Academic Education." On April 20, the following notice was given through the same journal:

> This is to inform the Publick, That the Trustees of the College of New Jersey, have appointed the Reverend Mr. Jonathan Dickinson, President of the said College; which will be opened the fourth week in May next, at Elizabeth-Town: At which Time and Place, all Persons suitably qualified, may be admitted to an Academic Education.

Hatfield, in his *History of Elizabeth,* states that "the first term of the College of New Jersey was opened at Mr. Dickinson's house, on the south side of the old Rahway road, directly west of Race street." President Dickinson's term of administration was brief, commencing in April 1747, and closing with his death on October 7, 1747. Upon his decease the Rev. Aaron Burr assumed charge of the College, which was removed from Elizabethtown to Newark. To Mr. Burr belongs the credit for the organization of the curriculum, the ceremonies of the College, and its discipline.

The first Commencement was held at Newark, November 9, 1748, and was celebrated with much ceremony. The *New York Gazette Revived in the Weekly Post Boy* published an account of the proceedings of this Commencement in detail, together with the inaugural address of President Burr. The graduating class numbered six.

A set of laws for the government of the College, probably prepared by Burr, was adopted by the Trustees at this time. One, relating to the admission of students, gives a fair idea of the entrance requirements of the period:

> 1. None may be expected to be admitted into College but such as being examined by the President and Tutors shall be found able to render Vergil and Tully's Orations into English; and to turn English into true and grammatical Latin; and to be so

well acquainted with the Greek as to render any part of the four Evangelists in that language into Latin or English; and to give the grammatical connection of the words.

The Trustees also resolved "That the annual Commencement for the future be on the last Wednesday of September, and the next Commencement be held at New Brunswick."

The need of funds being urgent, application was made to the Provincial Assembly for authority to raise by a lottery a sum not exceeding eight thousand dollars; but the request was denied and the lottery was transferred to Philadelphia. Several years later, in 1761-2, the Assembly granted this privilege, as did also the General Court of Connecticut (1753-4).

On September 26, 1750, the Trustees voted:

That a proposal Be made to the Towns of Brunswick and Prince-Town to try what Sum of Money They can Raise for Building of the College by the next meeting that the trustees may Be Better able to Judge in Which of these places to fix the place of the College.

At the next meeting of the Board, held in Trenton, May 15, 1751, the following resolution was adopted:

Voted that New Brunswick be ye Place for the Building of the College, provided the Inhabitants of sd. Place agree with the Trustees upon the following Terms, Viz., that they secure to the College a Thousand Pounds proc. Money, ten acres of land contiguous to the College, and two hundred acres of Wood Land, the furthest Part of it not to be more than three Miles distant from the Town; or such a Quantity of Wood Land as the Trustees of the College shall judge Equivalent to two hundred Acres of Wood Land offered to be given by some gentleman in Prince Town.

Mr. Jonathan Sergeant, the Treasurer, was ordered to view the land at Princeton and New Brunswick and report to the Board. The citizens of the latter place do not appear to have been eager to accept the terms imposed by the

Board, and, failing to comply by the time allowed, it was voted, September 27, 1752:

That the College be fixed at Princeton upon Condition that the Inhabitants of sd. Place secure to the Trustees that two Hundred Acres of Woodland, and that ten Acres of clear'd Land which Mr. Sergeant view'd; and also one thousand Pounds proc. Money.

This action finally settled the question of location, and, the citizens of the town having complied with the terms proposed by the Board, steps were at once taken for the erection of the first college building. The plans drawn by Dr. Shippen and Robert Smith were accepted by the Trustees. These, according to the minutes of July 22, 1754, specified "That the College be built of Brick if good Brick can be made at Princeton & if Sand can be got reasonably cheap. That it be three story high & without any Cellar"; but at a subsequent meeting it was decided that stone be used for the College edifice. The land for this building was given by Nathaniel Fitz Randolph, who also donated twenty pounds currency, and ground was broken on July 29, 1754. Governor Belcher, after declining to have the building named after himself, requested the Board to call the edifice "Nassau Hall," as expressing "The Honour we retain, in this remote Part of the Globe to the immortal Memory of the Glorious King William the 3d, who was a Branch of the illustrious House of NASSAU." This request was complied with in the following terms:

Whereas his Excellency Govr. Belcher has signified to us, his declining to have the Edifice we have lately erected at Princeton for the Use and Service of New-Jersey College to be called after his Name, and has desired and for Good Reasons that it should be call'd after the Name of the illustrious House of NASSAU; It is therefore voted, and is hereby ordered that the sd. Edifice be in all Time to come called and be known by the Name of NASSAU HALL.

The College was completed and the students removed from Newark to Princeton in the fall of 1756. The expenses incurred consequent upon the erection of so considerable a building, then the largest structure of its kind in the colonies, had prompted the Board, in 1753, to send the Rev. Gilbert Tennent and the Rev. Samuel Davies to Great Britain to solicit funds in behalf of the institution. This undertaking was successful, and the money acquired sufficient to defray in part the cost of the building.

The death of President Burr occurred September 24, 1757, and three days later the Trustees at their stated meeting elected the Rev. Jonathan Edwards, of Stockbridge, Massachusetts, to fill the vacancy.

President Edwards arrived at Princeton on February 16, 1758, and assumed the duties of his office. One week later he was inoculated for small-pox and died on the 22nd of March.

On May 9, 1759, the Rev. Samuel Davies was elected to the presidency and on July 26 entered upon the duties of his office. He died February 4, 1761.

During his administration there were no material changes in the course of instruction; more attention, however, was given to the cultivation of English composition and elocution.

The Rev. Samuel Finley had been proposed for the presidency at the meeting at which Mr. Davies was elected, and upon the death of the latter he was unanimously chosen as his successor. His administration lasted until July 17, 1766, the date of his death. During this period the course of instruction remained as in former years, and the College maintained a steady growth.

On November 19, 1766, the Trustees elected to the presidency, John Witherspoon, D.D., LL.D., of Paisley, Scotland. Dr. Witherspoon at first declined; a year later,

however, he accepted a reëlection and became sixth President of the College.

Dr. Witherspoon arrived in America during the summer of 1768 and was inaugurated on August 17. Among the students of this period were many who became leading figures in the Revolution and in the solution of the constitutional problem arising at the close of the war.

For nearly eight years the varying fortunes of the Revolution told heavily on the College. The course of instruction was interrupted by the presence of both armies, Nassau Hall was wrecked, the library scattered and destroyed, and the philosophical apparatus ruined.

President Witherspoon died November 15, 1794, and his successor, Samuel Stanhope Smith, D.D., LL.D., a graduate of the College in the Class of 1769, was elected to the presidency May 6, 1795. During his term of office the course of instruction was broadened and the curriculum enlarged. Among the more important changes was the establishment of professorships in chemistry and in natural history. This was the first provision for regular instruction in these branches of science made by an American college.

On March 6, 1802, Nassau Hall, save for the outer walls, was destroyed by fire, together with almost the entire library and part of the philosophical apparatus. Steps were at once taken to raise funds wherewith to repair the loss, and an elaborate address "To the Inhabitants of the United States" was issued by the Trustees. In this appeal they were so far successful that by April 4, 1804, more than forty-four thousand dollars had been collected. The rebuilding of Nassau Hall was completed during the summer of 1804.

Dr. Smith resigned the presidency August 14, 1812, and was succeeded by Ashbel Green, D.D., LL.D., of the Class of 1783. Dr. Green tendered his resignation to the Trustees

September 25, 1822. During this period of ten years the institution maintained a steady growth, both in the number of students and in the income from its invested funds.

On September 26, 1822, the Trustees elected to the presidency the Rev. John Holt Rice, of Richmond, Virginia. Dr. Rice, being in poor health, declined and the duties of the office for a time devolved upon the Vice-President, Philip Lindsley of the Class of 1804.

James Carnahan, D.D., LL.D., of the Class of 1800, was elected on May 12, 1823, and was inaugurated President on August 6 of that year. President Carnahan's term of office was one of marked increase in the growth and development of the College. During his administration of thirty-one years, sixteen hundred and thirty-four students were graduated from the institution; the teaching corps was increased from two professors and two tutors, in 1823, to six professors, two assistant professors, and four tutors, in 1854; and not less than seventy-five thousand dollars was expended in the erection of new buildings, the purchase of apparatus and books, and the improvement of the College grounds.

A department of law was established in 1846, under the direction of the Hon. Joseph C. Hornblower (hon. 1823), Chief Justice of the Supreme Court of New Jersey, James S. Green (hon. 1818), and Richard S. Field of the Class of 1821, Attorneys. The degree of Bachelor of Laws was given for two years' resident study. There being no funds available for the support of this department, the lectures were abandoned in 1852. During this period the degree of Bachelor of Laws was conferred upon seven persons.

President Carnahan resigned in 1853, but upon the request of the Board retained office until the Commencement of 1854.

John Maclean, D.D., LL.D., of the Class of 1816, was

elected to the presidency December 20, 1853, and inaugurated Wednesday, June 28, 1854. Dr. Maclean resigned December 11, 1867, retaining the office until the Commencement of 1868. The Civil War deprived the institution of a large proportion of its students and is largely responsible for the small increase. Four new professorships were established, with a total endowment of $195,000, and the teaching corps increased to twenty. The movement to establish free scholarships in the College, undertaken during the last years of President Carnahan's administration, was successful in obtaining $60,000. The interior of Nassau Hall was destroyed by fire for the second time on the night of March 10, 1855. The damage to the building, the walls alone standing, amounted to above $50,000, upon which there was an insurance of $12,000. The work of rebuilding Nassau Hall was completed during the spring of 1860.

James McCosh, D.D., LL.D., Litt.D., of Queen's College, Belfast, was elected President of the College on April 29, 1868. Dr. McCosh resigned the office in 1888, after an administration of twenty years. Under President McCosh the number of students increased from 281 in 1868 to 603 in 1887. Gifts amounting to upwards of three millions of dollars were contributed during this period, of which one million was expended in the erection of fourteen buildings. Among the more important changes in the curriculum were the introduction of the system of elective studies (1870); the founding of John C. Green School of Science (1873) offering courses leading to the degree of Bachelor of Science, Civil Engineer, and Master of Science; and the establishment of the Graduate Department (1877). The Faculty was enlarged from ten professors and seven tutors in 1868 to thirty-one professors, four assistant professors, and five tutors and instructors—a total of forty—in 1888.

Francis Landey Patton, D. D., LL.D., twelfth President of the College, was elected February 9, 1888, and inaugurated June 20, 1888. President Patton resigned the office June 9, 1902. During his administration of fourteen years the student enrollment increased from 603 in 1888 to 1354 in 1902. The School of Electrical Engineering was established in 1889. The Faculty numbered forty in 1888; in 1902 one hundred. Seventeen new buildings were erected during President Patton's incumbency.

In October, 1896, the one hundred and fiftieth anniversary of the signing of the First Charter of the College of New Jersey was celebrated; on the anniversary day, October 22, 1896, the title of Princeton University was assumed.

In 1900 a plan of Alumni Representation in the Board of Trustees was adopted, whereby the Board was enlarged by the addition of five Alumni Trustees, who hold office for a term of five years, and are eligible for reëlection. One Alumni Trustee is elected each year.

Woodrow Wilson, Ph.D., Litt.D., LL.D., of the Class of 1879, was elected to the presidency in June, 1902, and inaugurated on October 25 of the same year. President Wilson resigned October 20, 1910. During his administration the undergraduate course of study was revised; the Preceptorial Method of instruction was established; the Faculty was further strengthened by the addition of a considerable number of professors; the facilities of the University for both classroom and laboratory work were greatly increased by the building and equipment of a recitation hall and of laboratories for physics, electrical engineering, biology, and geology; several new dormitories were erected; and large endowments were received for the development of the Graduate School.

On October 20, 1910, the Hon. John Aikman Stewart, LL.D., Senior Trustee, was appointed President *pro tem-*

*pore,* by resolution of the Board of Trustees. President Stewart held the office until the election of President Hibben, January 11, 1912. During his administration he was aided in the performance of the academic duties of the presidency by Henry Burchard Fine, Ph.D., LL.D., Dean of the Faculty.

John Grier Hibben, Ph.D., LL.D., of the Class of 1882, was elected President of the University on January 11, 1912, and formally inaugurated on May 11 of the same year.

The title of the Corporation as now constituted is The Trustees of Princeton University.

## UNIVERSITY SEAL

The seal of the University is a shield resting upon a circle; in the upper part of the shield is an open Bible with Latin characters signifying the Old and New Testament; in the lower part a chevron, denoting the rafters of a building; in the spaces between the sides of the shield and the circle the motto "Dei sub numine viget"; on the outside of the circle, "Sigillum Universitatis Princetoniensis."

By resolution of the Board of Trustees, the use of the seal of the University is prohibited on all publications, manufactured articles, etc., except where specially authorized by the University.

## FORM OF BEQUEST

I give and bequeath to the Trustees of Princeton University, located at Princeton, in the State of New Jersey, the sum of .....dollars, the same to be free from succession tax, if any should exist thereon, and to be used as the Board of Trustees shall determine (or, in the case of a special gift, stating the terms of the gift).

# PART III

# ADMISSION TO THE UNIVERSITY

# ADMISSION TO PRINCETON UNIVERSITY

Princeton University offers: (1) *Undergraduate* courses in arts and sciences; (2) *Graduate* courses in arts and sciences; (3) *Technical* courses; and (4) maintains under Government auspices, a Naval Training Unit and a unit of the Students' Army Training Corps.

(1) The plan of undergraduate liberal studies provides three distinct courses, leading to degrees in four years.

First, the historic Bachelor of Arts course, in which both Greek and Latin are required for entrance and form a part of the curriculum of the first two years;

Second, the Bachelor of Letters course, a modern variant of the Bachelor of Arts course, in which Greek is replaced by additional required work in modern languages or science, and which is mainly humanistic;

Third, the Bachelor of Science course, which is identical with the Bachelor of Letters course in entrance requirements and prescribed studies, but which, in the more advanced years, is mainly scientific in its trend.

(2) The Graduate School offers advanced and research work in arts and sciences, leading to the degrees of Master of Arts and Doctor of Philosophy.

(3) The technical courses offered are: a four-year undergraduate course in Civil Engineering (for the period of the war, concentrated into two years); and a two-year graduate course in Electrical Engineering.

(4) The courses offered in the Naval Training Unit and the Students' Army Training Corps are those prescribed by the Government's regulations. Ultimate credit toward de-

grees will be given for academic studies taken by men in these units who have met the regular requirements for admission to Princeton.

## A. ENTRANCE EXAMINATIONS

### I. General Instructions

1. Candidates for admission to the freshman class of Princeton University must take the examinations of the College Entrance Examination Board in June or the examinations held in Princeton in September in the subjects required for admission. These examinations are held in June at various places throughout the country, and in September at Princeton only.

A list of centers at which the June examinations will be held is published about March 1, and may be obtained from the *Secretary of the College Entrance Examination Board, 431 West 117th Street, New York, N. Y.* A partial list will be found on page 64.

Requests for examinations in June at places not listed should be made to the Secretary of the Board not later than February 1.

For regulations governing admission to the September examinations, see page 65.

2. Applications for the June examinations should be sent to the Secretary of the College Entrance Examination Board.

3. School recommendations and testimonials of character are required of all candidates for admission and must be sent to the *Registrar of Princeton University, Princeton, N. J.*

4. For regulations governing registration and examination fees, see page 59. In addition to the examination fee, a matriculation fee of five dollars is required of each candidate on admission to the University.

5. For regulations governing admission from other colleges, or to special and partial courses, see pages 103, 104.

## II. Plans of Admission

There are two plans of *regular admission* to Princeton University, the Old Plan and the New Plan.

A plan of *exceptional admission* is also open to candidates for the degree of Bachelor of Science.

### REGULAR ADMISSION—OLD PLAN

Under the Old Plan, a candidate must pass written examinations in all subjects required for admission as listed on pages 68 to 69; he may, however, on recommendation of the Committee on Entrance, be admitted with conditions. A candidate for admission under the Old Plan may take the so-called *Ordinary Examinations* of the College Entrance Examination Board, or the *Comprehensive Examinations* of the College Entrance Examination Board, or any combination of them.

A testimonial of character and a recommendation from the school, designating the individual subjects which the candidate is to offer with the school's approval must be forwarded to the Registrar of Princeton University at least one week before the first day of the examinations.

*Preliminary Examinations.* Under the Old Plan a candidate may take examinations a year or more in advance of intended entrance to college and retain credit for subjects passed, provided he has been recommended for these examinations by his school. No credit will be given without the school recommendation.

### REGULAR ADMISSION—NEW PLAN

Under the New Plan a candidate must send to the Registrar of Princeton University, besides a testimonial of character, the detailed statement described in the next paragraph.

It must be signed by the principal of his school; it may be submitted on a blank furnished by the Registrar upon request or in some form convenient to the school; and it should be in the Registrar's hands early enough to allow the candidate to file his application with the Secretary of the College Entrance Examination Board in accordance with the regulations printed on page 59.

The statement should contain the following information regarding the candidate's school record: (a) The text books used in each year of his work in each subject; (b) The number of weeks devoted each year to each subject; (c) The number of hours per week devoted each year to each subject; (d) The grade attained each year in each subject, together with an explanation of the system of marking.

If the Committee on Entrance of Princeton University is satisfied from this statement that the candidate has completed a course of study fitting him for admission to the University and has attained satisfactory proficiency in his studies, permission to apply for examination under the New Plan will be granted and the candidate will be admitted without conditions upon passing *comprehensive examinations* in four specified subjects. These four subjects are generally those listed as required (not elective), under the requirements for admission to the various courses (see pages 68 to 69. For example, for admission to the A.B. course, the subjects in which examination is generally required are Greek, Latin, English, Mathematics; for the B.S., Litt.B course a Modern Language, Latin, English, Mathematics; for the C.E. course, English, Mathematics, an Elementary Foreign Language, and either a Science or a History.

By a *Comprehensive Examination* is meant:

1. One that is adapted to such variety of school instruction as exists in the several subjects—that is, these question

papers will not prescribe methods but will recognize the general principle that the schools determine how they shall teach a subject and that the college tests results or power.

2. One that is adapted to the different stages of training in the subjects in which the papers are set—that is, they will give boys opportunities to show their power, whether they have had the minimum or the maximum amount of training given in school. For example, the papers in Latin will be so framed as to enable a candidate who has had only two years of Latin to show that he has as much command over the language as can be expected from that amount of training, and they will be similarly useful for the candidate who has had three or four years of Latin.

### EXCEPTIONAL ADMISSION

The plan of "Exceptional Admission" is open only to candidates for the degree of B.S. For information regarding special requirements, testimonials, etc., see page 69.

## III. JUNE EXAMINATIONS 1919

### *Application and Fee*

All applications for examination must be addressed to the *Secretary of the College Entrance Board, 431 West 117th Street, New York, N. Y.*, and must be made upon a blank form to be obtained by applying to the Secretary of the Board.

Candidates who wish to take the Board's comprehensive examinations under the New Plan must make application on a special blank form to be obtained from the Secretary of the Board. No application to take these comprehensive examinations can be entertained by the Board unless the candidate has previously obtained permission from the Committee on Entrance of Princeton University. In this per-

mission the particular examinations to be taken by the candidate must be specified. As the application to the Board must reach the Secretary on or before a specified date (see below), it will be necessary for the candidate to obtain this permission from the Committee on Entrance of Princeton University at a still earlier date.

In June, 1919, there will be separate blank forms for the "application for examination" and "certificate of recommendation." The former should be addressed to the *College Entrance Examination Board, 431 West 117th Street, New York, N. Y.*, the latter to the *Registrar, Princeton University, Princeton, N. J.* Both forms may be obtained from the Secretary of the College Entrance Examination Board upon request by mail.

Provided that the application reach the College Entrance Examination Board not later than the date specified below, the examination fee will be $6.00 if the candidate is to be examined in the United States, $20.00 if the candidate is to be examined outside of the United States. The fee should be remitted by postal order, express order, or draft on New York to the College Entrance Examination Board.

Applications and fees of candidates who wish to be examined outside of the United States must reach the Secretary of the Board at least six weeks in advance of the examinations, that is, on or before May 5, 1919.

Applications and fees of candidates who wish to be examined at points in the United States west of the Mississippi River must be received at least four weeks in advance of the examinations, that is, on or before May 19, 1919.

Applications and fees of candidates who wish to be examined at points in the United States east of or on the Mississippi River must be received at least three weeks in advance of the examinations, that is, on or before May 26, 1919.

When the candidate has failed to obtain the required blank form of application for examination, the usual examination fee will be accepted if the fee arrive not later than the specified date accompanied by a memorandum containing the name and address of the candidate, the examination center at which he wishes to present himself, and a list of all subjects in which he may have occasion to take the Board's examinations.

Applications received later than the dates named will be accepted only upon payment of $6.00 in addition to the usual fee.

A list of the places at which the examinations are to be held by the Board in June, 1919, will be published about March 1. Requests that the examinations be held at particular points, to receive proper consideration, should be transmitted to the Secretary of the Board not later than February 1.

### JUNE EXAMINATIONS, 1919

In June 1919 the schedule of the examinations will be as follows:

*Monday, June 16*

8.45 A. M.—9.30 A. M.

PERIOD FOR REGISTRATION OF CANDIDATES

9.30 A. M.—12.30 P. M.

Mathematics *A*, Elementary Algebra complete (three hours)
Mathematics *A1*, Algebra to Quadratics (two hours)
Mathematics *A2*, Quadratics and Beyond (two hours)
COMPREHENSIVE MATHEMATICS (three hours)

1.45 P. M.—2 P. M.

PERIOD FOR REGISTRATION OF CANDIDATES

2 P. M.—6 P. M.

Mathematics *CD*, Plane and Solid Geometry combined (three hours)

Mathematics *C*, Plane Geometry (two hours)
Mathematics *D*, Solid Geometry (two hours)

*Tuesday, June 17*

8.45 A. M.—9 A. M.

PERIOD FOR REGISTRATION OF CANDIDATES

9 A. M.—1 P. M.

English *1*, Grammar and Composition (two hours)
English *2*, Literature (two hours)
COMPREHENSIVE ENGLISH (three hours)

1.45 P. M.—2 P. M.

PERIOD FOR REGISTRATION OF CANDIDATES

2 P. M.—6 P. M.

Mathematics *F*, Plane Trigonometry (two hours)

*Wednesday, June 18*

8.45 A. M.—9.30 A. M.

PERIOD FOR REGISTRATION OF CANDIDATES

9 A. M.—1 P. M.

Latin *2*, Elementary Prose Composition (one hour)
Latin *4*, Cicero and Sight Translation of Prose (two hours)
Latin *124*, Latin 1, 2 and 4 combined (three hours)
COMPREHENSIVE LATIN (three hours)

1.45 P. M.—2 P. M.

PERIOD FOR REGISTRATION OF CANDIDATES

2 P. M.—6 P. M.

Latin *3*, Second Year Latin (two hours)
Latin *5*, Virgil and Sight Translation of Poetry (two hours)
COMPREHENSIVE CHEMISTRY (three hours)

*Thursday, June 19*

8.45 A. M.—9.30 A. M.

PERIOD FOR REGISTRATION OF CANDIDATES

9 A. M.—1 P. M.

History *A*, Ancient (two hours)
History *B*, Mediaeval and Modern (two hours)

History *C*, English (two hours)
History *D*, American and Civil Government (two hours)
History *E*, Modern European (two hours)
COMPREHENSIVE HISTORY (three hours)

1.45 P. M.—2 P. M.

PERIOD FOR REGISTRATION OF CANDIDATES

2 P. M.—6 P. M.

French *A*, Elementary—First and Second Years (two hours)
French *B*, Intermediate—Third Year (two hours)
Spanish, Elementary—First and Second Years (two hours)
COMPREHENSIVE FRENCH (three hours)

*Friday, June 20*

8.45 A. M.—9 A. M.

PERIOD FOR REGISTRATION OF CANDIDATES

9 A. M.—1 P. M.

German *A*, Elementary—First and Second Years (two hours)
German *B*, Intermediate—Third Year (two hours)
COMPREHENSIVE GERMAN (three hours)
COMPREHENSIVE SPANISH (three hours)

1.45 P. M.—2 P. M.

PERIOD FOR REGISTRATION OF CANDIDATES

2 P. M.—6 P. M.

Chemistry (two hours)
Physics (two hours)
COMPREHENSIVE PHYSICS (three hours)

*Saturday, June 21*

8.45 A. M.—9 A. M.

PERIOD FOR REGISTRATION OF CANDIDATES

9 A. M.—1 P. M.

Greek *A1*, Grammar (one hour)
Greek *A2*, Elementary Composition (one hour)
Greek *BG*, Xenophon and Sight Translation (two hours)
COMPREHENSIVE GREEK (three hours)

1.45 P. M.—2 P. M.
PERIOD FOR REGISTRATION OF CANDIDATES
2 P. M.—4 P. M.

Greek *C*, Homer's Iliad (two hours)

### *June Examinations—Partial List of Centers*

The following is a list of the more important places at which the Board held examinations in June, 1918. The list for June, 1919, will be published about March 1, 1919.

ALABAMA, Birmingham.
ARKANSAS, Little Rock.
CALIFORNIA, Berkeley, Los Angeles.
COLORADO, Denver.
CONNECTICUT, Bridgeport, Danbury, Derby, Hartford, Middletown, New Haven, Norwich, South Norwalk, Stamford, Waterbury, Winsted.
DELAWARE, Wilmington.
DISTRICT OF COLUMBIA, Washington.
FLORIDA, Jacksonville.
GEORGIA, Atlanta, Savannah.
IDAHO, Boise.
ILLINOIS, Chicago, Peoria.
INDIANA, Indianapolis.
IOWA, Davenport, Des Moines, Dubuque.
KENTUCKY, Louisville.
LOUISIANA, New Orleans.
MAINE, Bangor, Portland.
MARYLAND, Baltimore.
MASSACHUSETTS, Amherst, Beverly, Boston, Cambridge, Fall River, Fitchburg, Great Barrington, Lowell, New Bedford, Newburyport, Northampton, South Hadley, Springfield, Tufts College, Wellesley, Williamstown, Worcester.

MICHIGAN, Detroit.
MINNESOTA, Minneapolis.
MISSOURI, Kansas City, St. Louis.
MONTANA, Butte, Helena.
NEBRASKA, Omaha.
NEW HAMPSHIRE, Concord, Hanover, Manchester.
NEW JERSEY, Asbury Park, East Orange, Montclair, Newark, New Brunswick, Passaic, Plainfield, Princeton, Trenton.
NEW YORK, Albany, Brooklyn, Buffalo, Elmira, Ithaca, New York, Peekskill, Poughkeepsie, Rochester, Syracuse, Utica.
NORTH CAROLINA, Asheville.
OHIO, Cincinnati, Cleveland, Columbus, Dayton, Toledo, Youngstown.
OREGON, Portland.
PENNSYLVANIA, Erie, Harrisburg, Philadelphia, Pittsburgh, Reading, Scranton.
RHODE ISLAND, Newport, Providence, Westerly.
SOUTH CAROLINA, Charleston.
TENNESSEE, Memphis, Nashville.
TEXAS, Austin, Dallas, El Paso, Houston.
UTAH, Salt Lake City.
VERMONT, Bellows Falls, Burlington, Rutland.
VIRGINIA, Richmond, Roanoke.
WASHINGTON, Seattle, Spokane.
WISCONSIN, Milwaukee.
HAWAII, Honolulu.

## IV. SEPTEMBER EXAMINATIONS AT PRINCETON, 1919

A candidate who proposes to take the entrance examinations at Princeton in September should apply to the Registrar of Princeton University on or before September 1.

At the September examinations only comprehensive question papers, prepared by the College Entrance Examination

Board, will be used. These papers are adapted to both Old and New Plan candidates.

A fee of five dollars, payable to Princeton University preferably either by money order or check, is required for the September examinations. A receipt will be sent to the candidate, which he may be required to show to the examiner on registering for the examinations. A candidate who has not met these regulations for application and payment of fee may be admitted to the examinations, but the results of the examinations may be delayed. No report will be sent until the candidate's application and fee shall have been received.

### SEPTEMBER EXAMINATIONS, 1919

#### *Schedule*

In September 1919 the order of examinations will be as follows:

*Monday, September 15*

| | |
|---|---|
| 8.30 A. M.- 9.00 A. M. | Registration of all candidates. |
| 9.00 A. M.-12.00 M. | English |
| 2.00 P. M.- 5.00 P.M. | Physics |
| | Chemistry |

*Tuesday, September 16*

| | |
|---|---|
| 9.00 A. M.-12.00 M. | Latin |
| 2.00 P. M.- 5.00 P.M. | French |
| | Spanish |

*Wednesday, September 17*

| | |
|---|---|
| 9.00 A. M.-12.00 M. | Elementary Mathematics |
| 2.00 P. M.- 5.00 P.M. | German |

*Thursday, September 18*

| | |
|---|---|
| 9.00 A. M.-12.00 M. | History |
| 2.00 P. M.- 5.00 P.M. | Greek |
| | Advanced Mathematics |

*Friday, September 19*

Aural Tests in Modern Languages

All candidates offering French, German or Spanish for admission are required, in addition to the written examination taken either in June or September, to take these aural tests. Candidates will be divided into alphabetical groups and will meet in the rooms of McCosh Hall as follows:

9.00 A. M.- 9.45 A. M. French A Elementary

| | | | |
|---|---|---|---|
| A | through | D ..... | McCosh 60 |
| E | " | K ..... | " 62 |
| L | " | R ..... | " 64 |
| S | " | Z ..... | " 66 |

10.00 A. M.-10.45 A. M. French B intermediate

| | | | |
|---|---|---|---|
| A | through | D ..... | McCosh 60 |
| E | " | K ..... | " 62 |
| L | " | R ..... | " 64 |
| S | " | Z ..... | " 66 |

11.00 A. M.-11.45 A. M. German A Elementary

| | | | |
|---|---|---|---|
| A | through | D ..... | McCosh 60 |
| E | " | K ..... | " 62 |
| L | " | R ..... | " 64 |
| S | " | Z ..... | " 66 |

12.00 M.-12.45 P. M. German B Intermediate

| | | | |
|---|---|---|---|
| A | through | D ..... | McCosh 60 |
| E | " | K ..... | " 62 |
| L | " | R ..... | " 64 |
| S | " | Z ..... | " 66 |

2.00 P. M.- 2.45 P. M. Spanish A Elementary

| | | | |
|---|---|---|---|
| A | through | Z ..... | McCosh 60 |

All candidates are expected to appear promptly at the time set for an examination. No candidate will be allowed to enter an examination later than a quarter of an hour after

the scheduled time; and no candidate who has seen a question paper will be allowed to leave the examination until half an hour shall have elapsed.

Applicants who have any conditions or other deficiencies from the June examinations are required to remove them at the September entrance examinations.

Examinations at other than the specified times are granted only in very exceptional circumstances. An applicant for examination at a special time must present a satisfactory reason and obtain permission by writing to the Registrar and must pay a fee of $10 for each subject, or part thereof, in which an examination is set. No special examinations are held outside of Princeton.

## B. FRESHMAN ENTRANCE REQUIREMENTS

### Regular Admission

1. The requirements for regular admission to the course leading to the degree of Bachelor of Arts are:

Greek, 3 units:*

Greek A1, A2, BG, C, or Greek comprehensive three years, Cp. 3

Latin, 4 units:

Latin 2, 3, 4, 5, or Latin 3, 124, 5, or Latin comprehensive four years, Cp. 4

English, 3 units:

English 1, 2, or English comprehensive

Mathematics, 2½ units:

Algebra A, including A1 and A2, C, or Elementary Mathematics, comprehensive three years, Cp. 3

In addition to these required subjects, *elective subjects to the value of at least 2 units* must be offered from the list printed on page 71.

2. The requirements for admission to the courses leading

* A unit represents a year's work in a subject. At a specified number of hours a week.

to the degree of Bachelor of Letters or of Bachelor of Science are:

AN ELEMENTARY MODERN LANGUAGE, 2 UNITS:
French A, or French comprehensive two years, CP. 2
German A, or German comprehensive two years, CP. 2
Spanish A, or Spanish comprehensive two years, CP. 2
LATIN, 4 UNITS:
Latin 2, 3, 4, 5, or Latin 3, 124, 5, or Latin comprehensive four years, CP. 4
ENGLISH, 3 UNITS:
English 1, 2, or English comprehensive
MATHEMATICS, 2½ UNITS:
Algebra A, including A1 and A2, C, or Elementary Mathematics, comprehensive three years, CP. 3
In addition to these required subjects, *elective subjects to the value of at least 3 units* must be offered from the list printed on page 71.

3. The requirements for admission to the course leading to the degree of Civil Engineer are:

TWO ELEMENTARY FOREIGN LANGUAGES, 4 UNITS:
Latin 3, or Latin comprehensive two years, CP. 2
French A, or French comprehensive two years, CP. 2
German A, or German comprehensive two years, CP. 2
Spanish A, or Spanish comprehensive two years, CP. 2
ENGLISH, 3 UNITS:
English 1, 2, or English comprehensive
MATHEMATICS, 3½ UNITS:
Mathematics A, including A1, and A2, C, D, F, or Advanced Mathematics comprehensive four years, CP. 4
SCIENCE, 1 UNIT:
Physics or Chemistry.
In addition to these required subjects, *elective subjects to the value of at least 3 units* must be offered from the list printed on page 71.

## EXCEPTIONAL ADMISSION

The plan of "Exceptional Admission" is open only to candidates for the degree of Bachelor of Science. A candidate for the degree of Bachelor of Science who cannot

satisfy the exact requirements for admission may offer substitutes if he is certified by his school as a student of unusual ability and shows in his entrance examinations that he is qualified for the advanced freshman courses in Mathematics, Physics, and Chemistry.

Such a candidate, offering only two years of Latin, will be examined in:

Latin
English
Elementary and Advanced Mathematics
Physics
Chemistry
Intermediate Modern Language

Such a candidate, not offering as much as two years of Latin, will be examined in:

English
Elementary and Advanced Mathematics
Physics
Chemistry
Elementary Modern Language
Intermediate Modern Language

English, Advanced Mathematics, an Intermediate Modern Language, and either Chemistry or Physics must be taken at final examinations, when *comprehensive* papers will be used. Preliminary examinations may be taken a year in advance of entrance in Elementary Mathematics, in Physics or Chemistry, and in Latin or an Elementary Modern Language, when either *ordinary* or *comprehensive* papers may be used.

*In addition,* a statement must be submitted by a candidate for "Exceptional Admission," signed by his school principal, that he has satisfactorily completed one unit in an accepted subject other than those offered for examination. This statement must be sent to the *Registrar, Princeton University, Princeton, N. J.*

## Required and Elective Entrance Subjects

| Ordinary Examinations | Comprehensive Examinations |
|---|---|
| **Greek, 3 units** | **Greek** |
| A1. Greek Grammar | |
| A2. Elementary Prose Composition | |
| BG. Xenophon and Sight Translation of Prose | Cp. 2. Two-year Greek (2) |
| C. Homer, Iliad Bks. I-III | Cp. 3. Three-year Greek (3) |
| **Latin, 4 units** | **Latin** |
| 3. Second Year Latin | Cp. 2. Two-year Latin (2) |
| 2 and 4. Elementary Prose Composition and Cicero and Sight Translation of Prose, or | |
| 124. Latin Grammar, Composition and Cicero | Cp. 3. Three-year Latin (3) |
| 5. Virgil and Sight Translation of Poetry | Cp. 4. Four-year Latin (4) |
| **English, 3 units** | **English** |
| 1. Grammar and Composition | |
| 2. Literature | Cp. English (3) |
| **Mathematics, 3½ units** | **Mathematics** |
| A1. Algebra to Quadrics (1) | |
| A2. Algebra, Quadratics and beyond (½) | |
| C. Plane Geometry (1) | Cp. 3. Elementary Mathematics (2½) |
| D. Solid Geometry (½) | Cp. 4. Elementary and Advanced Mathematics* (3½) |
| F. Plane Trigonometry (½) | |
| **French, 3 units** | **French** |
| A. Elementary (2) | Cp. 2. Two-year French (2) |
| B. Intermediate (3) | Cp. 3. Three-year French (3) |
| **German, 3 units** | **German** |
| A. Elementary (2) | Cp. 2. Two-year German (2) |
| B. Intermediate (3) | Cp. 3. Three-year German (3) |

* This examination is so arranged that the candidate may offer in addition to Elementary Algebra and Plane Geometry either one or both of Solid Geometry and Plane Trigonometry.

## Table of Values in Units*

| | Requirements for admission to the course leading to the degree of Bachelor of Arts | Units | Requirements for admission to the course leading to the degrees of Bachelor of Letters or Science | Units | Requirements for admission to the course leading to the degree of Civil Engineer | Units |
|---|---|---|---|---|---|---|
| REQUIRED SUBJECTS | Greek A1, A2, BG, C, or *Greek Cp. 3* | 3 | An Elementary Modern Language. (French A, German A, Spanish A), or *French Cp. 2, German Cp. 2, Spanish Cp. 2* | 2 | Two Elementary Foreign Languages<br>Latin 3, or *Latin Cp. 2*<br>French A, or *French Cp. 2*<br>German A, or *German Cp. 2* | 4 |
| | Latin 2, 3, 4, 5, or 124, 3, 5, or *Latin Cp. 4* | 4 | Latin 2, 3, 4, 5, or 124, 3, 5, or *Latin Cp. 4* | 4 | Spanish A, or *Spanish Cp. 2* | |
| | English 1, 2, or *English Cp.* | 3 | English 1, 2, or *English Cp.* | 3 | Mathematics A1, A2, C, D, F, or *Advanced Mathematics, Cp. 4* | 3½ |
| | Mathematics A1, A2, C, or *Elementary Mathematics Cp. 3* | 2½ | Mathematics A1, A2, C, or *Elementary Mathematics Cp. 3* | 2½ | Physics or Chemistry | 1 |
| | | | | | English 1, 2, or *English Cp.* | 3 |
| ELECTIVE SUBJECTS<br>At least 2 units for A.B. | History A, or *Ancient Cp.* | 1 | History A, or *Ancient Cp.* | 1 | History A, or *Ancient Cp.* | 1 |
| | History B, or *Med. and Mod. Cp.* | 1 | History B, or *Med. and Mod. Cp.* | 1 | History B, or *Med. and Cp.* | 1 |
| | History C, or *English Cp.* | 1 | History C, or *English Cp.* | 1 | History C, or *English Cp.* | 1 |
| | History D, or *American Cp.* | 1 | History D, or *American Cp.* | 1 | History D, or *American Cp.* | 1 |
| | History E, or *Mod. English Cp.* | 1 | History E, or *Mod. English. Cp.* | 1 | History E, or *Mod. Eng. Cp.* | 1 |
| | French A, or *French Cp. 2* | 2 | French A, or *French Cp. 2* | 2 | French A, or *French Cp. 2* | 2 |
| | French B, or *French Cp. 3* | 3 | French B, or *French Cp. 3* | 3 | French B, or *French Cp. 3* | 3 |
| At least 3 units for Litt.B.-B.S. | German A, or *German Cp. 2* | 2 | German A, or *German Cp. 2* | 2 | German A, or *German Cp. 2* | 2 |
| | German B, or *German Cp. 3* | 3 | German B, or *German Cp. 3* | 3 | German B, or *German Cp. 3* | 3 |
| | Spanish A, or *Spanish Cp. 2* | 2 | Spanish A, or *Spanish Cp. 2* | 2 | Spanish A, or *Spanish Cp. 2* | 2 |
| | *Spanish Cp. 3* | 3 | *Spanish Cp. 3* | 3 | *Spanish Cp. 3* | 3 |
| At least 3 units for C.E. | Mathematics D, or *Mathematics Cp. 4* | ½ | Mathematics D, or *Mathematics Cp. 4* | ½ | Latin 3, or *Latin Cp. 2* | 2 |
| | Mathematics F, or *Mathematics Cp. 4* | ½ | Mathematics F, or *Mathematics Cp. 4* | ½ | Latin 2 and 4, or Latin 124, or *Latin Cp. 3* | 1<br>3 |
| | Physics | 1 | Physics | 1 | Latin 5, or *Latin Cp. 4* | 1<br>4 |
| | Chemistry | 1 | Chemistry | 1 | Physics | 1 |
| | | | | | Chemistry | 1 |

* A unit represents a year's work in a subject at a specified number of hours a week.

| | |
|---|---|
| SPANISH, 3 UNITS | SPANISH |
| A. Elementary (2) | Cp. 2. Two-year Spanish (2) |
| | Cp. 3. Three-year Spanish (3) |
| HISTORY, 2 UNITS: (Not more than two of) | HISTORY: (Not more than two of) |
| A. Ancient (1) | Ancient (1) |
| B. Mediaeval and Modern (1) | Mediaeval and Modern (1) |
| C. English (1) | English (1) |
| D. American (1) | American (1) |
| E. Modern European* (1) | Modern European* (1) |
| SCIENCE, 1 UNIT EACH | SCIENCE |
| Physics (1) | Physics (1) |
| Chemistry (1) | Chemistry (1) |

## C. DESCRIPTION OF ENTRANCE SUBJECTS

### I. HISTORY

The requirements in History are based on the Report of the Committee of Seven of the American Historical Association (in Proceedings of the American Historical Association for 1898; incorporated in the Report made to the National Education Association in 1899 by the Committee on College Entrance Requirements; and published separately in the same year by the Macmillan Company, under the title, *Study of History in Schools*).

The attention of teachers is called also to the Report of the Committee of Five of the American Historical Society, *The Study of History in Secondary Schools* (The Macmillan Company, 1911). The examiners will endeavor to frame the question-papers in accordance with the recommendations of this committee.

#### *Ordinary Examination*

The examinations in the four fields of study named below will require the use of both judgment and memory; they will pre-suppose the use of good text-books, collateral reading, and practice in written work. Geographical knowledge will be tested by means of outline maps.

A. *Ancient History,* with especial reference to Greek and

* No credit for Modern European History will be granted to candidates who are credited with either Mediaeval and Modern European History or English History.

Roman history, including also a short introductory study of the more ancient nations and the chief events of the early Middle Ages down to the death of Charlemagne (814).

B. *Mediaeval and Modern European History,* from the death of Charlemagne to the present time.

C. *English History.*

D. *American History and Civil Government.*

*Comprehensive Examination*

The paper will consist of four divisions, made up of questions on Ancient History, Mediaeval and Modern History, English History and American History. If the candidate has studied but one of these divisions, he will be expected to answer the prescribed questions on that division, one of them being a map question. He will be expected to spend about two hours on these questions. In the remaining hour, he should answer additional questions from the same division. If, on the other hand, the candidate has studied two or more of these divisions, he will be expected to answer, in addition to the prescribed questions on one of these divisions, questions on such other divisions as he may have studied.

In reading the papers, account will be taken of the year of the school programme in which the subject has been studied. As further evidence of a candidate's efficiency, notebooks may be submitted.

## II. Greek

The following requirements in Greek conform as closely as possible to the recommendations of the Committee of Twelve of the American Philological Association.

*Ordinary Examination*

A1. *Grammar*: The inflections; the simpler rules for composition and derivation of words; syntax of cases and

the verbs; structure of sentences in general, with particular regard to relative and conditional sentences, indirect discourse, and the subjunctive.*

A2. *Elementary Prose Composition,* consisting principally of detached sentences to test the candidate's knowledge of grammatical constructions.*

The examinations in grammar and prose composition will be based on the first two books of Xenophon's *Anabasis.*

B. Xenophon: The first four books of the *Anabasis.**

C. *Homer*: *Iliad,* I-III. The first three books of the *Iliad* (omitting II, 494-end), and the Homeric constructions, form, and prosody.

G. *Sight Translation of Prose* of no greater difficulty than Xenophon's *Anabasis.**

### *Comprehensive Examination*

The examination will be adapted to the proficiency of candidates who have studied Greek in a systematic school course of five exercises a week, extending through two or three school years.

The paper will include passages of simple Attic prose, and of Homer, to be translated at sight, and a passage from the first eight chapters of Xenophon's *Anabasis,* upon which questions will be based to afford the candidate means of showing his mastery of the ordinary forms, constructions, and idioms of the language. The paper will also include passages in English to be turned into Greek, and questions on prosody and on the Homeric poems and on Homeric life.

## III. Latin

The following requirements in Latin are in accordance with the recommendations made to the American Philological Association by the Commission on College Entrance Requirements in Latin,

* Greek A1 and A2 should be taken together as constituting a single indivisible subject. Similarly, Greek B and G should be taken together.

October, 1909. (See 10th Annual Report of the Secretary, College Entrance Examination Board, pages 4-7.)

*a. Amount and Range of the Reading Required*

(1) The Latin reading, without regard to the prescription of particular authors and works, shall not be less *in amount* than Caesar: *Gallic War,* I-IV; Cicero: the Orations against *Catiline,* for the *Manilian Law,* and for *Archias;* Virgil: *Aeneid,* I-VI.

(2) The amount of reading specified above shall be selected by the schools from the following authors and works: Caesar (*Gallic War* and *Civil War*) and Nepos (*Lives*); Cicero (*Orations, Letters,* and *De Senectute*) and Sallust (*Catiline* and *Jugurthine War*); Virgil (*Bucolics, Georgics,* and *Aeneid*) and Ovid (*Metamorphoses, Fasti,* and *Tristia*).

*b. Scope of Examinations*

(1) *Translation at sight.* Candidates will be examined in translation at sight of both prose and verse. The vocabulary, constructions and range of ideas of the passages set will be suited to the preparation secured by the reading indicated above.

(2) *Prescribed Reading.* Candidates will be examined also upon the following prescribed reading: Cicero, Orations for the *Manilian Law* and for *Archias;* and Virgil; *Aeneid,* I, II, and either IV or VI, at the option of the candidate; with questions on subject-matter, literary and historical allusions, and prosody. Every paper in which passages from the prescribed reading are set for translation will contain also one or more passages for translation at sight; and candidates must deal satisfactorily with both these parts of the paper, or they will not be given credit for either part.

(3) *Grammar and Composition.* The examinations in

grammar and composition will demand thorough knowledge of all regular inflections, all common irregular forms, and the ordinary syntax and vocabulary of the prose authors read in school, with ability to use this knowledge in writing simple Latin prose.

### *Suggestions Concerning Preparation*

Exercises in translation at sight should begin in school with the first lessons in which Latin sentences of any length occur, and should continue throughout the course with sufficient frequency to insure correct methods of work on the part of the student. From the outset particular attention should be given to developing the ability to take in the meaning of each word—and so, gradually, of the whole sentence —just as it stands; the sentence should be read and understood in the order of the original, with full appreciation of the force of each word as it comes, so far as this can be known or inferred from that which has preceded, and from the form and the position of the word itself. The habit of reading in this way should be encouraged and cultivated as the best preparation for translating. No translation, however, should be a mechanical metaphrase. Nor should it be a mere loose paraphrase. The full meaning of the passage to be translated, gathered in the way described above, should finally be expressed in clear and natural English.

A written examination cannot test the ear or tongue, but proper instruction in any language will necessarily include the training of both. The school work in Latin, therefore, should include much reading aloud, writing from dictation, and translation from the teacher's reading. Learning suitable passages by heart is also very useful, and should be more practised.

The work in composition should give the student a better understanding of the Latin he is reading at the time, if it is

prose, and greater facility in reading. It is desirable, however, that there should be systematic and regular work in composition during the time in which poetry is read as well; for this work the prose authors already studied should be used as models.

### *Ordinary Examination*

(2) *Elementary Prose Composition.* The examination will presuppose the reading of the required amount of prose (see I, 1 and 2), including the prose works prescribed (see II, 2).*

(3) *Second Year Latin.* This examination covers two years' work in Latin and will presuppose reading not less in amount than Caesar: *Gallic War,* I-IV, selected by the schools from Caesar (*Gallic War* and *Civil War*) and Nepos (*Lives*); but the passage set will be chosen with a view to sight translation. The paper will include easy grammatical questions and some simple composition.

4. *Cicero* (Orations for the *Manilian Law* and for *Archias*) and *Sight Translation of Prose.* The examination will presuppose the reading of the required amount of prose (see I, 1 and 2).*

5. *Virgil* (*Aeneid,* I, II, and either IV or VI, at the option of the candidate) and *Sight Translation of Poetry.* The examination will presuppose the reading of the required amount of poetry (see I, 1 and 2).

### *Comprehensive Examination*

The examination will be adapted to the proficiency of candidates who have studied Latin in a systematic school

* Latin 2 and 4 should be taken together as constituting a single indivisible subject. A combined paper including Latin 1 (Grammar), 2 (Composition) and 4 (Cicero and Sight Translation of Prose) will be offered for such candidates as may wish to take all three subjects at one examination. Three hours will be given to this combined paper.

course of five exercises a week, extending through two, three or four years.

The paper will include passages of Latin prose and verse of varying degrees of difficulty to be translated at sight, and passages for Latin composition of varying degrees of difficulty. Accompanying the different passages set upon the paper, will be questions on forms, syntax, prosody and the idioms of the language, as well as questions on the subject matter, literary and historical, connected with the authors usually read in schools.

Each candidate will choose those parts of the paper which are designed to test such proficiency in the language as may properly be acquired in two or more years' study; but a candidate who has studied Latin four years may not select the more elementary parts of the paper.

## IV. English

The requirement in English is that recommended by the National Conference on Uniform Entrance Requirements in English.

### Requirements for 1915-1919

The study of English in school has two main objects (1) command of correct and clear English, spoken and written; (2) ability to read with accuracy, intelligence, and appreciation.

#### *Grammar and Composition*

The first object requires instruction in grammar and composition. English grammar should ordinarily be reviewed in the secondary school; and correct spelling and grammatical accuracy should be rigorously exacted in connection with all written work during the four years. The principles of English composition governing punctuation, the use of words, sentences, and paragraphs should be

thoroughly mastered; and practice in composition, oral as well as written, should extend throughout the secondary school period. Written exercises may well comprise letter-writing, narration, description, and easy exposition and argument. It is advisable that subjects for this work be taken from the student's personal experience, general knowledge, and studies other than English, as well as from his reading in literature. Finally, special instruction in language and composition should be accompanied by concerted effort of teachers in all branches to cultivate in the student the habit of using good English in his recitations and various exercises, whether oral or written.

### *Literature*

The second object is sought by means of two lists of books, headed respectively READING and STUDY, from which may be framed a progressive course in literature covering four years. In connection with both lists, the student should be trained in reading aloud and be encouraged to commit to memory some of the more notable passages both in verse and in prose. As an aid to literary appreciation, he is further advised to acquaint himself with the most important facts in the lives of the authors whose works he reads and with their place in literary history.

### *A. Reading*

The aim of this course is to foster in the student the habit of intelligent reading and to develop a taste for good literature, by giving him a first-hand knowledge of some of its best specimens. He should read the books carefully, but his attention should not be so fixed upon details that he fails to appreciate the main purpose and charm of what he reads.

With a view to large freedom of choice, the books pro-

vided for reading are arranged in the following groups, from each of which at least two selections are to be made, except as otherwise provided under Group I.

GROUP I—CLASSICS IN TRANSLATION

The *Old Testament,* comprising at least the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Daniel, together with the books of Ruth and Esther.

The *Odyssey,* with the omission, if desired, of Books I, II, III, IV, V, XV, XVI, XVII.

The *Iliad,* with the omission, if desired, of Books XI, XIII, XIV, XV, XVII, XXI.

The *Æneid.*

The *Odyssey, Iliad,* and *Æneid* should be read in English translations of recognized literary excellence.

For any selection from this group a selection from any other group may be substituted.

GROUP II—SHAKESPEARE

*Midsummer Night's Dream; Merchant of Venice; As You Like It; Twelfth Night; The Tempest; Romeo and Juliet; King John; Richard II; Richard III; Henry V; Coriolanus;* [*Julius Caesar; Macbeth; Hamlet,* if not chosen for study under B.].

GROUP III—PROSE FICTION

Malory: *Morte d'Arthur* (about 100 pages); Bunyan: *Pilgrim's Progress,* Part I; Swift: *Gulliver's Travels* (voyages to Lilliput and to Brobdingnag); Defoe: *Robinson Crusoe,* Part I; Goldsmith: *Vicar of Wakefield*; Frances Burney: *Evelina;* Scott's Novels, any *one;* Jane Austen's Novels, any *one;* Maria Edgworth: *Castle Rackrent,* or

*The Absentee;* Dickens' Novels, any *one;* Thackeray's Novels, any *one;* George Eliot's Novel's any *one;* Mrs. Gaskell: *Crawford;* Kingsley: *Westward Ho!* or *Hereward the Wake;* Reade: *The Cloister and the Hearth;* Blackmore: *Lorna Doone;* Hughes: *Tom Brown's Schooldays;* Stevenson: *Treasure Island,* or *Kidnapped,* or *Master of Ballantrae;* Cooper's Novels, any *one;* Poe: Selected Tales; Hawthorne: *The House of the Seven Gables,* or *Twice Told Tales,* or *Mosses from an Old Manse;* A collection of *Short Stories* by various standard writers.

GROUP IV—ESSAYS, BIOGRAPHY, ETC.

Addison and Steele: *The Sir Roger de Coverley Papers,* or Selections from the *Tatler* and *Spectator* (about 200 pages); Boswell: Selections from the *Life of Johnson* (about 200 pages); Franklin: *Autobiography;* Irving: Selections from the *Sketch Book* (about 200 pages), or *Life of Goldsmith;* Southey: *Life of Nelson;* Lamb: Selections from the *Essays of Elia* (about 100 pages); Lockhart: Selections from the *Life of Scott* (about 200 pages); Thackeray: Lectures on *Swift, Addison,* and *Steele* in the *English Humorists;* Macaulay: any one of the following essays: *Lord Clive, Warren Hastings, Milton, Addison, Goldsmith, Frederic the Great, Madame d'Arblay;* Trevelyan: Selections from the *Life of Macaulay* (about 200 pages); Ruskin; *Sesame and Lilies,* or *Selections* (about 150 pages); Dana: *Two Years before the Mast;* Lincoln: Selections, including at least the two Inaugurals, the Speeches in Independence Hall and at Gettysburg, the Last Public Address, the Letter to Horace Greeley, together with a brief memoir or estimate of Lincoln; Parkman: *The Oregon Trail;* Thoreau: *Walden;* Lowell: *Selected Essays* (about 150 pages); Holmes: *The Autocrat of the Breakfast Table;* Stevenson: *An Inland Voyage* and *Travels with a Donkey;* Huxley:

*Autobiography* and selections from *Lay Sermons,* including the addresses on *Improving Natural Knowledge, A Liberal Education,* and *A Piece of Chalk;* A collection of *Essays* by Bacon, Lamb, DeQuincey, Hazlitt, Emerson, and later writers; A collection of *Letters* by various standard writers.

GROUP V—POETRY

Palgrave: *Golden Treasury* (First Series), Books II and III, with special attention to Dryden, Collins, Gray, Cowper, and Burns; Palgrave: *Golden Treasury* (First Series), Book IV, with special attention to Wordsworth, Keats, and Shelley (if not chosen for study under B); Goldsmith: *The Traveller* and *The Deserted Village;* Pope: *The Rape of the Lock;* A collection of English and Scottish *Ballads,* as, for example, some *Robin Hood* ballads, *The Battle of Otterburn, King Estmere, Young Beichan, Bewick and Grahame, Sir Patrick Spens,* and a selection from later ballads; Coleridge: *The Ancient Mariner, Christabel,* and *Kubla Kahn;* Byron: *Childe Harold,* Canto III or IV, and *The Prisoner of Chillon;* Scott: *The Lady of the Lake,* or *Marmion;* Macaulay: *The Lays of Ancient Rome, The Battle of Naseby, The Armada, Ivry;* Tennyson: *The Princess,* or *Gareth and Lynette, Lancelot and Elaine,* and *The Passing of Arthur;* Browning: *Cavalier Tunes, The Lost Leader, How They Brought the Good News from Ghent to Aix; Home Thoughts from Abroad, Home Thoughts from the Sea, Incident of the French Camp, Hervé Riel, Pheidippides, My Last Duchess, Up at a Villa—Down in the City, The Italian in England, Patriot, The Pied Piper, "De Gustibus"—, Instans Tyrannus;* Arnold, *Sohrab and Rustum,* and *The Forsaken Merman;* Selections from American Poetry, with special attention to Poe, Lowell, Longfellow, and Whittier.

### *B. Study*

This part of the requirement is intended as a natural and logical continuation of the student's earlier reading, with greater stress laid upon form and style, the exact meaning of words and phrases, and the understanding of allusions. The books provided for study are arranged in four groups, from each of which one selection is to be made.

#### GROUP I—DRAMA

Shakespeare: *Julius Caesar,* or *Macbeth,* or *Hamlet.*

#### GROUP II—POETRY

Milton: *L'Allegro, Il Penseroso,* and either *Comus* or *Lycidas;* Tennyson: *The Coming of Arthur, The Holy Grail,* and *The Passing of Arthur;* The selections from Wordsworth, Keats, and Shelley in Book IV of Palgrave's *Golden Treasury* (First Series).

#### GROUP III—ORATORY

Burke: *Speech on Conciliation with America;* Macaulay's two *Speeches on Copyright* and Lincoln's *Speech at Cooper Union;* Washington's *Farewell Address* and Webster's *First Bunker Hill Oration.*

#### GROUP IV—ESSAYS

Carlyle: *Essay on Burns,* with a selection from Burns's *Poems;* Macaulay: *Life of Johnson;* Emerson: *Essay on Manners.*

### *Ordinary Examination*

However accurate in subject-matter, no paper will be considered satisfactory if seriously defective in punctuation, spelling, or other essentials of good usage.

The examination will be divided into two parts:

### I. GRAMMAR AND COMPOSITION

In grammar and composition, the candidate may be asked specific questions upon the practical essentials of these studies, such as the relation of the various parts of a sentence to one another, the construction of individual words in a sentence of reasonable difficulty, and those good usages of modern English which one should know in distinction from current errors. The main test in composition will consist of one or more essays, developing a theme through several paragraphs; the subjects will be drawn from the books read, from the candidate's other studies, and from his personal knowledge and experience quite apart from reading. For this purpose the examiner will provide several subjects, perhaps eight or ten, from which the candidate may make his own selections. He will not be expected to write more than four hundred words an hour.

### 2. LITERATURE

The examination in literature will include:

*A.* General questions designed to test such a knowledge and appreciation of literature as may be gained by fulfilling the requirements defined above under *A. Reading.* The candidate will be required to submit a list of the books read in preparation for the examination, certified by the principal of the school in which he was prepared; but the books named in this list will not be made the basis of detailed questions.*

*B.* A test on the books prescribed under *B. Study* above, which will consist of questions upon their content, form, and structure, and upon the meaning of such words, phrases, and allusions as may be necessary to an understanding of the works and an appreciation of their salient

* A suitable blank form of certificate may be obtained from the Secretary of the College Entrance Examination Board upon application.

qualities of style. General questions may also be asked concerning the lives of the authors, their other works, and the periods of literary history to which they belong.

*Comprehensive Examination*

The examination will test the candidate's preparation in the fields covered by the Old Plan examinations in 1. Grammar and Composition and 2. Literature. It will test his ability to write clearly and correctly, and to show that he has read, understood and appreciated a sufficient amount of English literature. The paper will contain some questions that cannot be answered except by candidates who are able to apply what they have learned to the solution of unexpected problems. In so far as ability to pass the examination may depend upon a knowledge of the subject-matter of books, it will not necessarily depend upon the knowledge of those books prescribed under the Old Plan, though no candidate who has been intelligently prepared to attempt the examination under that Plan should find himself at any disadvantage if he decides to avail himself of the comprehensive examination.

## V. Modern Languages

All candidates offering German, French or Spanish for admission will, in addition to the June or September written examinations, take the aural test given in September, as follows.

1. An aural test in Elementary German, French, or Spanish, designated German (x), French (x), and Spanish (x).

2. An aural test in Intermediate German, French, or Spanish, designated German (y), French (y), and Spanish (y).

A candidate's grade on these aural tests will be reckoned as an integral part of his final grade in the subject. Candi-

dates who pass the written part of the examination but fail to pass the aural part will not be re-examined in the former. Candidates who fail in the written part of the examination, but pass only the aural part, must be re-examined in both parts.

### DESCRIPTION OF AURAL TESTS

The aural tests are supplementary to the written entrance examinations in the Modern Languages. They do not contemplate an increase in the length of time or the amount of work devoted in school to preparation for the present entrance requirements in German, French, and Spanish but are given with the view of encouraging secondary schools to lay greater emphasis on pronunciation, and ultimately of requiring an oral test in the Modern Languages for admission.

1. The aural test (x) in the Elementary requirement will be not more than forty-five minutes in length and will consist of three parts: (1) an exercise in writing easy German, French, or Spanish prose from dictation; (2) the reproduction in English of the content of a short "sight" passage in easy German, French, or Spanish prose, read aloud by the examiner; (3) writing in German, French, or Spanish answers to questions put by the examiner in that language on a short connected passage, read aloud by the examiner just before the questions are asked.

2. The aural test (y) in the Intermediate requirement will likewise be not more than forty-five minutes in length and will consist of three parts: (1) an exercise in writing moderately difficult German, French, or Spanish from dictation; (2) the written reproduction in German, French, or Spanish of the content of a short "sight" passage or ordinary narrative German, French, or Spanish read aloud by the examiner; (3) writing in the respective language answers to questions put by the examiner in German, French

or Spanish on a connected prose passage, read aloud by the examiner just before the questions are asked.

## GERMAN

The requirements in German follow the recommendations of the Committee of Twelve of the Modern Language Association of America (published by D. C. Heath & Co.).

### *A. Elementary German*

#### THE AIM OF THE INSTRUCTION

At the end of the elementary course in German the pupil should be able to read at sight, and to translate, if called upon, by way of proving ability to read, a passage of very easy dialogue or narrative prose, help being given upon unusual words and construction, to put into German short English sentences taken from the language of every-day life or based upon the text given for translation, and to answer questions upon the rudiments of the grammar, as defined below.

#### THE WORK TO BE DONE

During the first year the work should comprise:

1. Careful drill upon pronunciation.
2. Writing German from dictation.
3. The memorizing and frequent repetition of easy colloquial sentences.
4. Drill upon the rudiments of grammar, that is, upon the inflection of the articles, of such nouns as belong to the language of every day life, of adjectives, pronouns, weak verbs and the more usual strong verbs; also upon the use of the more common proportions, the simpler uses of the modal auxiliaries, and the elementary rules of syntax and word-order.

5. Abundant easy exercises designed not only to fix in mind the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression.

6. The reading of from 75 to 100 pages of graduated texts from a reader, with constant practice in translating into German easy variations upon sentences selected from the reading lesson (the teacher giving the English), and in the reproduction from memory of sentences previously read.

Among suitable texts for the first year* are: After one of the many Readers especially prepared for beginners,— Meissner: *Aus meiner Welt;* Blüthgen; *Das Peterle von Nürnberg;* Storm: *Immensee,* or any of Baumbach's short stories.

During the second year the work should comprise:

1. The reading of from 150 to 200 pages of literature in the form of easy stories and plays.

2. Accompanying practice, as before, in the translation into German of easy variations upon the matter read and also in the off-hand reproduction, sometimes orally and sometimes in writing, of the substance of short and easy selected passages.

3. Continued drill upon the rudiments of the grammar, directed to the ends of enabling the pupil, first, to use his knowledge with facility in the formation of sentences, and, second, to state his knowledge correctly in the technical language of grammar.

4. Writing German from dictation.

Among suitable texts for the second year are: Gerstaecker: *Germelshausen;* Eichendorff: *Aus dem Leben eines Taugenichts;* Wildenbruch: *Das edle Blut;* Jensen: *Die braune Erica;* Seidel: *Leberecht Hühnchen;* Fulda: *Unter vier Augen;* Benedix: *Lustspiele* (any one). For

* During each year at least six German poems should be committed to memory.

students preparing for a scientific school a scientific reader is recommended.

For the description of the aural test in German see page 87.

## *B. Intermediate German*

### THE AIM OF THE INSTRUCTION

At the end of the intermediate course the pupil should be able to read at sight German prose of ordinary difficulty, whether recent or classical; to put into German a connected passage of simple English, paraphrased from a given text in German; to answer any grammatical questions relating to usual forms and essential principles of the language, including syntax and word-formation, and to translate and explain (so far as explanation may be necessary) a passage of classical literature taken from some text previously studied.

### THE WORK TO BE DONE

The work should comprise, in addition to the elementary course, the reading of about 400 pages of moderately difficult prose and poetry, with constant practice in giving, sometimes orally and sometimes in writing, paraphrases, abstracts, or reproductions from memory of selected portions of the matter read; also grammatical drill upon the less usual strong verbs, the use of articles, cases, auxiliaries of all kinds, tenses and modes (with special reference to the infinitive and subjunctive), and likewise upon word-order and word-formation.

Among suitable texts for the third year are: Heyse's Riehl's, Keller's, Storm's, Meyer's, Ebner-Eschenbach's, W. Raabe's *Novellen* or *Erzählungen;* Schiller: *Wilhelm Tell;* Freytag: *Die Journalisten,* Heine: *Harzreise.*

For the description of the aural test in German see page 87.

*Comprehensive Examination*

The examination will be adapted to the proficiency of those who have studied German in school for two or three years, respectively.

The paper will include passages of German prose or verse of varying degrees of difficulty to be translated into good English. It will also contain passages in English or varying degrees of difficulty to be translated into German, and questions on grammar. Opportunity will also be given for those who have had special training in German to show their ability to express themselves in that language.

This written examination will be supplemented by the aural test described on page 87.

## FRENCH

The requirements in French follow the recommendations of the Committee of Twelve of the Modern Language Association of America (published by D. C. Heath & Co.).

### *A. Elementary French*

#### THE AIM OF THE INSTRUCTION

At the end of the elementary course the pupil should be able to pronounce French accurately, to read at sight easy French prose, to put into French simple English sentences taken from the language of every-day life based upon a portion of the French text read, and to answer questions on the rudiments of the grammar as defined below.

#### THE WORK TO BE DONE

During the first year the work should comprise:

1. Careful drill in pronunciation.

2. The rudiments of grammar, including the inflection of the regular and the more common irregular verbs, the plural nouns, the inflection of adjectives, participles, and pronouns; the use of personal pronouns, common adverbs, prepositions, and conjunctions; the order of words in the sentence, and the elementary rules of syntax.

3. Abundant easy exercises, designed not only to fix in the memory the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression.

4. The reading of from 100 to 175 duodecimo pages of graduated texts, with constant practice in translating into French easy variations of the sentences read (the teacher giving the English) and in reproducing from memory sentences previously read.

5. Writing French from dictation.

Among suitable texts for the first year are: A well graded reader for beginners; Bruno: *Le tour de la France;* Compayré: *Yvan Gall;* Laboulaye: *Contes bleus;* Malot: *Sans famille.*

During the second year the work should comprise:

1. The reading of from 250 to 400 pages of easy modern prose in the form of stories, plays, or historical or biographical sketches.

2. Constant practice, as in the previous year, in translating into French easy variations upon the texts read.

3. Frequent abstracts, sometimes oral and sometimes written, of portions of the text already read.

4. Writing French from dictation.

5. Continued drill upon the rudiments of grammar, with constant application in the construction of sentences.

6. Mastery of the forms and use of pronouns, pronominal adjectives, of all but the rare irregular verb forms, and of the simpler uses of the conditional and subjunctive.

Among suitable texts for the second year are: Daudet: *Le Petit Chose;* Erckmann—Chatrian: stories; Halévy: *L'Abbé Constantin;* Labiche et Martin: *Le voyage de M. Perrichon;* Lavisse: *Histoire de France.*

For the description of the aural test in French see page 87.

### *B. Intermediate French*

#### THE AIM OF THE INSTRUCTION

At the end of the intermediate course the pupil should be able to read at sight ordinary French prose or simple poetry, to translate into French a connected passage of English based on the text read, and to answer questions involving a more thorough knowledge of syntax than is expected in the elementary course.

#### THE WORK TO BE DONE

This should comprise the reading of from 400 to 600 pages of French of ordinary difficulty, a portion to be in the dramatic form; constant practice in giving French paraphrases, abstracts or reproductions from memory of selected portions of the matter read; the study of a grammar of moderate completeness; writing from dictation.

Among suitable texts for the third year are: Bazin: *Les Oberlé;* Dumas: novels; Mérimée: *Colomba;* Sandeau: *Mlle. de la Seiglière;* Tocqueville: *Voyage en Amérique.*

For the description of the aural test in French see page 87.

### *Comprehensive Examination*

The examination will be adapted to the proficiency of those who have studied French in school for two or three years, respectively.

The paper will include passages of French prose or verse of varying degrees of difficulty to be translated into good English. It will also contain passages in English of varying degrees of difficulty to be translated into French, and questions on grammar. Opportunity will also be given for those who have had special training in French to show their ability to express themselves in that language.

This written examination will be supplemented by the aural test described on page 87.

## SPANISH

The requirement in Spanish, which follows the form and spirit of the recommendations made for French and German by the Committee of Twelve of the Modern Language Association, is based upon recommendations made by a committee of that Association in December, 1910.

### *A. Elementary Spanish*

#### THE AIM OF THE INSTRUCTION

At the end of the elementary course the pupil should be able to pronounce Spanish accurately, to read at sight easy Spanish prose, to put into Spanish simple English sentences taken from the language of every-day life or based upon a portion of the Spanish text read, and to answer questions on the rudiments of the grammar, as indicated below.

#### THE WORK TO BE DONE

During the first year the work should comprise:

1. Careful drill in pronunciation.

2. The rudiments of grammar, including the conjugation of the regular and the more common irregular verbs, the inflection of nouns, adjectives, and pronouns, and the elementary rules of syntax.

3. Exercises containing illustrations of the principles of grammar.

4. The careful reading and accurate rendering into good English of about 100 pages of easy prose and verse, with translation into Spanish of easy variations of the sentences read.

5. Writing Spanish from dictation.

During the second year the work should comprise:

1. The reading of about 200 pages of prose and verse.

2. Practice in translating Spanish into English, and English variations of the text into Spanish.

3. Continued study of the elements of grammar and syntax.

4. Mastery of all but the rare irregular verb forms and of the simpler uses of the moods and tenses.

5. Writing Spanish from dictation.

6. Memorizing of easy short poems.

The emphasis should be placed on careful, thorough work with much repetition rather than upon rapid reading. The reading should be selected from the following: A collection of easy short stories and lyrics, carefully graded; Juan Valera: *El pájaro verde;* Perez Escrich: *Fortuna;* Ramos Carrión and Vital Aza: *Zaragüeta;* Palacio Valdés; *José;* Pedro de Alarcón: *El Capitán Veneno;* the selected short stories of Pedro de Alarcón or Antonio de Trueba.

Every secondary school in which Spanish is taught should have in its library several Spanish-English and English-Spanish dictionaries, the all-Spanish dictionary of the Royal Spanish Academy, one or more manuals of the history of Spanish literature, such as that by Fitzmaurice-Kelly, and Ticknor's *History of Spanish Literature.*

For the description of the aural test in Spanish see page 87.

*Comprehensive Examination*

The examination will be adapted to the proficiency of those who have studied Spanish in school for two or three years.

The paper will include passages of Spanish prose or verse or both of varying degrees of difficulty to be translated into simple and idiomatic English. It will also contain passages in English of varying degrees of difficulty to be translated into Spanish, and questions on grammar. Opportunity will be given to those who have had special training in Spanish to show their ability to express themselves in that language.

This written examination will be supplemented by the aural test described page 87.

## VI. Mathematics

The present definition of the requirements in Mathematics is in accordance with recommendations made in September, 1903, by a committee of the American Mathematical Society. (*Bulletin* of the American Mathematical Society, vol. ix, no. 2, November, 1903.)

*Ordinary Examination*

*Algebra to Quadratics, AI.* The four fundamental operations for rational algebraic expressions, factoring, determination of highest common factor and lowest common multiple by factoring. Fractions, including complex fractions and ratio and proportion. Linear equations, both numerical and literal, containing one or more unknown quantities. Problems depending on linear equations. Radicals, including the extraction of the square root of polynomials and of numbers. Exponents, including the fractional and negative.

*Quadratics and Beyond, AII.* Quadratic equations, both numerical and literal. Simple cases of equations with one or more unknown quantities, that can be solved by the

methods of linear or quadratic equations. Problems depending on quadratic equations. The binomial theorem for positive integral exponents. The formulas for *n*th term and the sum of the terms of arithmetical and geometrical progressions, with applications.

It is assumed that pupils will be required throughout the course to solve numerous problems which involve putting questions into equations. Some of these problems should be chosen from mensuration, from physics, and from commercial life. The use of graphical methods and illustrations, particularly in connection with the solution of equations, is also expected.

*C. Plane Geometry.* The usual theorems and constructions of good textbooks,* including the general properties of plane rectilinear figures; the circle and the measurement of angles; similar polygons; areas; regular polygons and the measurement of the circle. The solution of numerous original exercises, including loci problems. Applications to the mensuration of lines and plane surfaces.

*D. Solid Geometry.* The usual theorems and constructions of good textbooks,* including the relations of planes and lines in space; the properties and measurement of prisms, pyramids, cylinders, and cones; the sphere and the spherical triangle. The solution of numerous original exercises, including loci problems. Applications to the mensuration of surfaces and solids.

*F. Plane Trigonometry.* Definitions and relations of the six trigonometric functions as ratios; circular measurement of angles. Proofs of principal formulas, in particular for

* The Board's examination questions in plane and solid geometry will be limited to propositions contained in the syllabus prepared by the National Committee of Fifteen appointed by the American Federation of Teachers of the Mathematical and Natural Sciences and the National Education Association, and to originals based on them. The Report of the Committee was published in *The Mathematics Teacher* for December, 1912. Reprints of the Report may be obtained *gratis* upon application to the Commissioner of Education, Department of the Interior, Washington, D. C.

the sine, cosine, and tangent of the sum and the difference of two angles, of the double angle and the half angle, the product expressions for the sum or the difference of two sines or of two cosines, etc.; the transformation of trigonometric expressions by means of these formulas. Solution of trigonometric equations of a simple character. Theory and use of logarithms (without the introduction of work involving infinite series). The solution of right and oblique plane triangles.

*Comprehensive Examination*

The examination will be adapted to the proficiency of those who have not had less than the usual school course, in Algebra AI and AII, and in Plane Geometry. It will also provide the means by which those who have extended their study of Mathematics to include Solid Geometry, or Logarithms and Trigonometry, may exhibit their proficiency in any or all of these branches of Mathematics. There will be two papers, one for those who have had no instruction beyond Elementary Mathematics, and one for those whose instruction has extended beyond. Any one whose instruction has extended beyond Elementary Mathematics will be expected to take the paper containing questions on Advanced Mathematics, and to devote at least half his time to those questions which cover the Advanced Mathematics he has studied. Candidates will find on the examination paper the instructions necessary for their guidance.

## VII. Physics

The present definition of the requirements in Physics was framed by a commission appointed for the purpose by the College Entrance Examination Board in co-operation with other associations (see Ninth Annual Report of the Secretary, College Entrance Examination Board, pages 4-12).

*General Statement*

1. The course of instruction in Physics should include:

(*a*) The study of one standard textbook, for the purpose of obtaining a connected and comprehensive view of the subject. The student should be given opportunity and encouragement to consult other scientific literature.

(*b*) Instruction by lecture-table demonstrations, to be used mainly for illustration of the facts and phenomena of physics in their qualitative aspects and in their practical applications.

(*c*) Individual laboratory work consisting of experiments requiring at least the time of 30 double periods, two hours in the laboratory to be counted as equivalent to one hour of class-room work. The experiments performed by each student should number at least 30. The work should be so distributed as to give a wide range of observation and practice.* Princeton University does not require that a candidate offering Physics shall have done laboratory work in that subject. It strongly advises all candidates to do laboratory work when it is possible for them to do it.

The aim of laboratory work should be to supplement the pupil's fund of concrete knowledge and to cultivate his power of accurate observation and clearness of thought and expression. The exercises should be chosen with a view to furnishing forceful illustrations of fundamental principles and their practical applications. They should be such as yield results capable of ready interpretation, obviously in conformity with theory, and free from the disguise of unintelligible units.

Slovenly work should not be tolerated, but the effort for precision should not lead to the use of apparatus or processes so complicated as to obscure the principle involved.

2. Throughout the whole course special attention should be paid to the common illustrations of physical laws and to their industrial applications.

3. In the solution of numerical problems, the student should be encouraged to make use of the simple principles of algebra and geometry to reduce the difficulties of solution. Unnecessary mathematical difficulties should be avoided and care should be exercised to prevent the student from losing sight of the concrete facts in the manipulation of symbols.

N.B. **In lieu of the presentation of a laboratory note-book hitherto required of students who have done laboratory work, Princeton University will hereafter accept the submission of a laboratory certificate signed by the candidate's teacher, describing the work done. In June this certificate should be sent to the Secretary of the College Entrance Examination Board who, on request, will furnish a blank form suitable for the purpose. In September it should be sent to the Registrar of Princeton University.*

### *Comprehensive Examination*

The examination will be adapted to the proficiency of those who have had such a course of school training in the elementary facts and principles of Physics as is described in the definition of Elementary Physics issued by the College Entrance Examination Board. The paper will contain, however, more questions than a candidate is expected to answer, in which an effort will be made to make due allowance for diversity of instruction.

## VIII. Chemistry

Teachers of chemistry are advised to write to the Secretary of the College Entrance Examination Board for a *pamphlet, which will give full information as to the requirements in chemistry.*

The requirement in chemistry is divided into two parts:

* The list of topics deemed fundamental and of experiments suitable for laboratory work may be obtained by applying to the Secretary, The College Entrance Examination Board.

*Part I* contains a minimum list of essential topics. In the examination papers there will be no optional questions on this part, and these questions will count sixty (60) per cent.

*Part II* is supplementary, and provides for a more extended programme along three main lines, namely:

*Ordinary Examination*

(*a*) Descriptive chemistry.

(*b*) Chemical principles or theories.

(*c*) Applications of chemistry in the household or in the arts.

This part of the examination paper offers a choice of questions and will count forty (40) per cent. In his answers the candidate must confine himself to two out of three groups of questions.

The teacher may thus devote the time to any two of the three groups indicated, and so adapt his course to local conditions or personal preference. It should be clearly recognized that thoroughness in teaching must not be sacrificed to an attempt to cover the topics named in all three of the groups.

It is required that the candidate's preparation in chemistry should include:

1. Individual laboratory work, comprising at least forty exercises selected from a list of sixty or more, not very different from the list suggested by the College Entrance Examination Board.

2. Instruction by lecture-table demonstrations, to be used mainly as a basis for questioning upon the general principles involved in the pupil's laboratory investigations.

3. The study of at least one standard textbook to the end that the pupil may gain a comprehensive and connected view of the most important facts and laws of elementary chemistry.

N.B. *In lieu of the presentation of a laboratory notebook hitherto required, Princeton University will hereafter require the submission of a laboratory certificate, signed by the candidate's teacher, describing the work done. No credit will be given for the examination in chemistry unless accompanied by such a certificate. In June this certificate should be sent to the Secretary of the College Entrance Examination Board, who, on application, will furnish a blank form suitable for the purpose. In September it should be sent to the Registrar of Princeton University.*

*Comprehensive Examination*

The examination will be adapted to the proficiency of those who have received systematic instruction in the principles of Chemistry and their application in a school course in which laboratory experiments are performed by the pupil. The paper will contain more questions than the candidate is expected to answer, in order to make allowance for diversity of instruction in different schools, and will require the recognition of the phenomena and the laws that are of general significance and the illustration of such phenomena and laws by well-chosen examples. The questions will include not only questions on the chemistry of laboratory practice but also, in an elementary fashion, the chemistry of the household and of industry.

## ASIATIC STUDENTS

Any candidate for admission who is a native of Asia, and not of American or European parentage, may offer, as a substitute for the regular requirement in Latin an equivalent in Arabic, Chinese, Sanskrit, or Pali. A candidate who wishes to make this substitution should notify the Registrar not later than March 1 of the year in which he plans to enter.

## ADMISSION TO SPECIAL COURSES

In exceptional cases students are admitted to the privileges of the University, not as members of any one of the four regular classes or as candidates for a degree, but are allowed to take special undergraduate courses, selected under the direction of the Faculty, in such a manner as to secure as full an employment of their time as in the regular course. Such students are listed as "Special Students not Candidates for a Degree," and are subject to the same regulations and discipline and to the same examinations in the studies pursued as other undergraduates.

A candidate for admission as a special student must present satisfactory testimonials of character, and will be expected to take the regular entrance examinations upon the subjects prerequisite to his courses and to pass a sufficient number to show that he has an amount of preparation equivalent to that required of regular students.

These special courses are not offered to those who attempt to enter the regular courses and fail to do so, nor to those who have failed in the regular courses.

When special students are finally leaving the University, certificates of proficiency, signed by the President and Registrar, may be granted them on report by the Committee on Examinations and Standing that they have completed the courses on their schedule.

## STUDENTS PURSUING PARTIAL COURSES

Students in the Princeton Theological Seminary, or other properly qualified persons, may be admitted to one or more undergraduate courses in the University. Such students shall be entered as undergraduates in the catalogue under the caption, Students Pursuing Partial Courses. Students in the Princeton Theological Seminary are admitted to these

courses without charge; but other persons are charged at the rate of $20.00 a course.

## ADMISSION FROM OTHER COLLEGES

A candidate for admission from another college must present a letter of honorable dismissal from the president or dean of that college.

A candidate for admission from a college to which he was admitted by certificate will be held for the Princeton freshman entrance requirements in each subject in which his standing in his former college was not in the upper half of his class. Such of these requirements as are not satisfied by examination at the time of admission must be satisfied in accordance with the rules which apply to students regularly admitted upon examination.

The candidate's credits for courses taken in the college from which he comes will be accepted in so far as these courses are equivalent to courses given at Princeton. If his credits show that he has an amount of preparation equivalent to that required of a regular freshman, he will be admitted and will be classified as a "Student Qualifying for Regular Standing." He will be assigned to those courses for which he is qualified, preference being given to such of the required courses as he may not have had. If at the end of two terms of residence in Princeton his work has been satisfactory, he may be enrolled as a regular student, his status being determined by his credits; or, in case he qualifies for it, he may receive a degree with the graduating class. In the meantime he will be subject to the same regulations and discipline as a regular student.

No person is admitted to the University as a candidate for a Bachelors' degree, or for the degree of Civil Engineer, after the beginning of the first term of the senior year.

## REGULATION CONCERNING SECRET SOCIETIES

Immediately after the beginning of the academic year students entering the Undergraduate Department meet for matriculation; and at that time subscription to the following pledge is required by the Board of Trustees:

We, the undersigned, do individually for ourselves promise, without mental reservation, that we will have no active connection whatever with any secret society, nor be present at the meeting of any secret society in this institution so long as we are members of Princeton University, it being understood that this promise has no reference to the American Whig and Cliosophic Societies. We also declare that we regard ourselves bound to keep this promise and on no account whatever to violate it.

# PART IV

## STUDENTS' ARMY TRAINING CORPS
## NAVAL TRAINING UNIT

# STUDENTS' ARMY TRAINING CORPS

LIEUTENANT COLONEL JOHN A. PEARSON, U. S. A., Commandant
Tower, Blair Hall

CAPTAIN DAYTON VOORHEES
12 Boudinot Street

CAPTAIN WILLIAM R. K. MITCHELL
4 Upper Pyne

FIRST LIEUT. GEORGE W. CASSELL
1 Upper Pyne

FIRST LIEUT. THOMAS J. LEWIS
Peacock Inn

2ND LT. ROBT. D. WARING
31 First National Bank Bldg.

2ND LT. LEO V. TALAMINI
8 Upper Pyne

2ND LT. E. C. BOYETTE
1 E. Witherspoon

2ND LT. H. F. BAKER
2-B. Holder Hall

2ND LT. B. W. BOYDEN
105 Holder

2ND LT. F. ALBRIGHT
95 Blair

2ND LT. E. DREWS
13 Upper Pyne

In accordance with the regulations issued by the War Department's Committee on Education and Special Training, Princeton University has established a unit of the Students' Army Training Corps.

In order to be admitted to the Unit, a candidate of draft age must be a graduate of a standard four-year secondary school or have equivalent preparation. If a candidate wishes to receive credit ultimately toward a Princeton degree he must meet the regular requirements for admission to Princeton.

A member of the Unit is a member of the United States Army. He must be able to meet the physical qualifications required for induction into the Army.

A member of the Unit will receive from the Government the pay of a private, together with subsistence, quarters, clothing and instruction.

A student under eighteen vears of age who enters Prince-

ton in the regular way by examination and who is physically qualified may be enrolled in the Students' Army Training Corps. However, such a student will not receive any pay or support by the Government. His university expenses will be computed at a rate corresponding to that allowed by the War Department in paying for the regular members of the Unit.

## PROGRAMS OF INSTRUCTION

Members of the Unit are divided into classes according to age. Those 20 years of age on September 12, 1918, are in Class 1; those 19 years of age on that day are in Class 2; and those 18 years of age on that day, or younger men who are permitted to enroll in the Unit, are in Class 3. Students of Class 1 may have but a single term of 12 weeks in college; those of Class 2 may have but two such terms; those of Class 3 may expect to remain in college for three terms.

For all students, certain subjects are classed as essential and must be taken during a student's residence. These essential subjects are exhibited in the following programs. The particular program appropriate to the branch of the service which the student desires to enter should be chosen; the subjects contained in that program then become for him essential subjects.

### PROGRAM A

Infantry, Field Artillery, Coast Artillery (Heavy).
Single term of 12 weeks.

Military Instruction, 2 hrs.; War Issues, 4 hrs.; Military Law and Practice, 3 hrs.; Sanitation and Hygiene, 3 hrs.; Surveying and Map Making, 4 hrs.

PROGRAM B

Air Service.

Single term of 12 weeks.

Military Instruction, 2 hrs; War Issues, 4 hrs; Military Law and Practice, 3 hrs; Map Reading and Navigation, 4 hrs; Elementary Physics, 4 hrs.

PROGRAM C

Ordnance Corps and Quartermaster's Corps

Single term of 12 weeks.

Military Instruction, 2 hrs; War Issues, 4 hrs; Military Law and Practice, 3 hrs.

Quartermaster's Corps

Two courses in Economics, Accounting, Business Management, etc., must be taken and another course from the list of allied subjects.

Ordnance Corps

Physics 4 hrs; Modern Ordnance, 1 hr.; Business Management, 2 hrs.

Program C is appropriate for limited service men as well as for full service men.

PROGRAM D

Engineer Corps, Signal Corps, Chemical Warfare Service.

Single term of 12 weeks.

Engineer Corps

An approved program in any branch of engineering studies.

Signal Corps

An approved program of studies in Electrical Engineering.

Chemical Warfare Service

An approved program of Chemical Engineering or Chemical Technology.

PROGRAM E

Transport Service and Truck Service

Single term of 12 weeks.

Military Instruction, 2 hrs; War Issues, 4 hrs; Military Law and Practice, 3 hrs.; and other courses taken from the list of allied subjects, occupying not less than 7 hrs.

ALLIED SUBJECTS

The allied subjects which have been referred to in the preceding programs are the following:

LIST 1

Courses occupying 4 hrs. a week.

Mathematics 2 (Analytical Geometry and Calculus); Physics 1; Chemistry 1; Biology 1; French (the advanced courses in French are open only to those who have had courses in that language).

LIST 2

Courses occupying 3 hrs. a week.

Latin or Greek; German; Spanish; Physics 2; Chemistry 2; Biology 2; Surveying; Geology; Descriptive Geometry; Freehand and Mechanical Drawing; Economics; Accounting; History; Law (International, Constitutional, and Military); Sanitation and Hygiene.

PROGRAM OF STUDY FOR STUDENTS IN CLASS 1.

Students of Class 1 take one of the five Programs of Study outlined above. An additional course of one hour in Trigonometry must be taken by those who have not studied that subject.

PROGRAM OF STUDY FOR STUDENTS OF CLASS 2.

2 terms of 12 weeks each.

Military Instruction 2 hrs.; War Issues, 4 hrs. These courses are for all students, whatever particular branch of

service they may wish to enter. In addition, the programs A, B, C, D, E, given in the preceding section, exhibit the other essential courses which must be taken. These courses will be arranged for the students of Class 2 in one or the other of the two terms through which they may expect to remain in college. The course in Military Law and Practice, 3 hrs., must be taken in the second term. The full schedule of studies for each term must occupy at least 16 hours a week, and after the essential subjects are determined additional courses from the list of allied subjects must be taken to complete the required number of hours.

If the student has not studied Trigonometry, he must take the course Mathematics 1 (Trigonometry and Algebra) occupying 4 hours, in the first term.

PROGRAM OF STUDY FOR STUDENTS OF CLASS 3.
3 terms of 12 weeks each.

Military Instruction 2 hrs.; War Issues, 4 hrs. These courses are for all students, whatever particular branch of service they may wish to enter. In addition, the programs A, B, C, D, E, given in the preceding section, exhibit the other essential courses which must be taken. These courses will be arranged for the students of Class 3 in one of the three terms through which they may expect to remain in college. The course in Military Law and Practice, 3 hrs., must be taken in the third term. The full schedule of studies for each term must occupy at least 16 hours a week, and after the essential subjects are determined additional courses from the list of allied subjects must be taken to complete the required number of hours.

If the student has not studied Trigonometry, he must take the course Mathematics 1 (Trigonometry and Algebra) occupying 4 hours, in the first or second term.

*Notice to those who are at liberty to choose courses from the list of allied subjects.*

The choices which are open from the list of allied subjects are conditional on the arrangement of the schedule of exercises, on the qualifications of the student for the work of the courses, and on the equipment of the Departments. The choices of the students will be considered and allowed when practicable.

A course in Beginners' French, 4 hours, is open to those who have not studied that language, if the arrangement of their essential subjects permits them to take it.

*Engineering, Chemistry, Medicine*

Members of the Unit who are especially qualified for work in Engineering, Chemistry, or Medicine, in preparation for service in these special branches, may be selected and assigned to special courses in these subjects. Students desiring to be considered in this assignment should note this fact on the paper on which their choice of subjects is presented, and should present such a statement of their qualifications for the special work which they desire as they are able to furnish. Such students will be required to take the theoretical military courses, the War Issues Course, and the course on Military Law and Practice, but will not be required to devote so much time to the practical military instruction as is required of other members of the Unit. Students proposing to take these courses should choose from the list offered to everyone courses appropriate to their proposed work, and proceed as regular members of the Unit until special work is organized for them.

Those desiring to take up special work in engineering should choose from the list of allied subjects Mathematics 2 (Analytical Geometry and Calculus).

# NAVAL TRAINING UNIT

REAR ADMIRAL CASPAR FREDERICK GOODRICH, U. S. N., COMMANDANT

The Navy Department has authorized the continuance of the Princeton Naval Training Unit under the new conditions imposed by the new draft law.

In order to be admitted to the Unit, a candidate must be a graduate of a standard four-year secondary school or have equivalent preparation. If a candidate wishes to receive credit ultimately toward a Princeton degree, he must meet the regular requirements for admission to Princeton.

As a member of the Unit will be a member of the Naval Reserve, he must be able to meet the physical qualifications required for enrolment in the Naval Reserve. Those already enrolled in the Naval Reserve will retain their present ratings. New members will be rated as seamen, second class.

Members of the Unit will receive the pay of a Seaman, Second Class, and commutation of rations, quarters and instruction.

A student under eighteen years of age who enters Princeton in the regular way by examination, and who is physically qualified, may receive Naval Training. However, such a student will not receive any pay or support from the Government. His university expenses will be computed at a rate corresponding to that allowed by the Navy Department in paying for the regular members of the Unit.

Every member of the Naval Unit shall take Naval Discipline and Administration, 2 hours a week.

The courses in Navigation and Seamanship, 6 hours a week, and Ordnance and Gunnery, 3 hours a week, are open to one hundred men chosen according to age and academic qualifications.

ADDITIONAL SUBJECTS OFFERED TO FIRST YEAR STUDENTS

Members of the Naval Training Unit who have not had an adequate course in Trigonometry are required to take for the first term, Mathematics 1, a four hours' course in Trigonometry and Algebra. Those who are not required to take this course must choose from the following list, unless they have already satisfactorily completed courses in the subjects named:

Mathematics 2 (Analytical Geometry and Calculus)
Physics 1
Chemistry 1
French

To each of these courses four hours a week are assigned. The advanced course in French is open only to those who have already studied that language. A course in Beginners' French is open to those who present German or Spanish for entrance and who continue the study of either of those languages. The courses in Physics and Chemistry are adapted to the needs of students who have not studied those subjects in college.

In addition, each member of the Unit will take two courses from the courses announced in the Undergraduate Courses of Instruction, to each of which three hours a week are assigned, or he may take instead courses from the preceding list. Admission to these courses will be determined by the qualifications of the students, so far as the arrangement of the schedule and the equipment of the Departments permit.

*Engineering and Chemistry*

Members of the Unit who are especially qualified for work in Engineering or Chemistry in preparation for service in those special branches may be selected and assigned to special courses in these subjects. Students

desiring to be considered in this assignment should note this fact on the paper on which their choice of subjects is presented, and should present such a statement of their qualifications for the special work which they desire as they are able to furnish. Such students will be required to take the naval courses, but will not be required to devote so much time to practical instruction as is required of other members of the Unit. Students proposing to take these courses should choose from the list offered to every one courses appropriate to their proposed work, and proceed as regular members of the Unit until special work is organized for them.

# PART V

# PLAN OF UNDERGRADUATE STUDY

# PLAN OF UNDERGRADUATE STUDY

The regular undergraduate curriculum extends through four academic years.

The course in Civil Engineering, hitherto a four-year course, is discontinued for the duration of the war, and a two-year course has been substituted. The studies of this course will be reckoned to the student's credit in case he is able to extend his studies to cover those ordinarily given in the four-year course.

The four-year courses of study lead to the usual bachelor degrees (A.B., B.S., Litt.B.) or to the degree of Civil Engineer.

The degree of Bachelor of Arts (A.B.) is open to those who, entering with Greek, fulfill the full classical requirements of freshman and sophomore years, they being free, after the two introductory years, to choose their studies in whatever department they prefer.

The degree of Bachelor of Letters (Litt.B.) is open to those who, having substituted for Greek at entrance either French or German or one of those languages and physics or chemistry, concentrate their studies in junior and senior years in one of the philosophical, literary, political, or other humanistic departments.

The degree of Bachelor of Science (B.S.) is open to those who, entering with a similar substitution for Greek, concentrate their studies in junior and senior years in one of the mathematical or scientific departments; and also to those who, entering on the "Exceptional Plan" of admission, substitute for the Latin of freshman year, advanced courses in mathematics and the sciences, and continue the study of those branches in junior and senior years.

The degree of Civil Engineer is conferred upon those who complete the full course in Civil Engineering, as outlined on succeeding pages.

The schedule of every sophomore, junior, and senior who is a candidate for a bachelor's degree consists of five courses of three hours a week, subject only to the established exemptions for candidates for Final Special Honors.

The various courses of study offered are open only to students of that year to which the courses belong, except in cases where students are allowed or required to take a course belonging to a preceding year.

## REGULAR CURRICULUM

### Freshman Year

Candidates for the A.B. degree under the four-year plan have in freshman year seventeen class exercises a week, of which two are in English, four in Latin, four in Greek, four in Mathematics, and three in the modern language offered at entrance. Any candidate for the A.B. degree who passes either French B or German B at entrance may elect an advanced course in the subject passed by him, or may begin the other modern language which he did not offer for entrance.

Candidates for the Litt.B. or B.S. degree have seventeen class exercises a week, of which two are in English, four in Latin, four in Mathematics, four in Physics or Chemistry, and three in a modern language. Those who enter under the "Exceptional Plan" of admission take advanced courses in Mathematics, and in Physics or Chemistry, and substitute another course for the Latin.

A course in Hygiene, one hour a week, both terms, and a course in Physical Education, three periods a week, both terms, are also required of all freshmen, but the hours or periods of these courses are not to conflict with the hours

regularly scheduled for each individual student in the curriculum.

### Freshman Schedule

| A.B. | | Litt.B. or B.S. | |
|---|---|---|---|
| Greek | 4 hours | Physics or Chemistry | 4 hours |
| Latin | 4 " | Latin | 4 " |
| Mathematics | 4 " | Mathematics | 4 " |
| English | 2 " | English | 2 " |
| Mod. Lang. | 3 " | Mod. Lang. | 3 " |
| Hygiene | 1 " | Hygiene | 1 " |
| Physical Education | 3 " | Physical Education | 3 " |
| | 21 | | 21 |

### Sophomore Year

The sophomore courses, required and elective, arranged so as to include elementary courses prerequisite to the subsequent studies of the various departments, are as follows:

Sophomore A.B.—Required

Introduction to Philosophy
Greek (1st term); Latin (2nd term)
Physics or Chemistry

Sophomore A.B.—Elective (*Two courses to be taken*)

History
Latin (1st term); Greek (2nd term)
French (Advanced or Beginners')
German (Advanced or Beginners')
Spanish or Italian
English
Mathematics
Physics
Chemistry
Geology
Biology

Sophomore Litt.B. and B.S. [for students who have taken Physics in Freshman year]

REQUIRED
Introduction to Philosophy
Two of
Latin, Mathematics, Physics (second course)
or Chemistry (first course)

ELECTIVE (*Two courses to be taken*)
History
Latin
French (Advanced or Beginners')
German (Advanced or Beginners')
Spanish or Italian
English
Mathematics
Physics (second course)
Biology (with Chemistry)
Geology
Graphics, if Mathematics is taken

SOPHOMORE LITT.B. AND B.S. [for students who have taken Chemistry in Freshman year]

REQUIRED
Introduction to Philosophy
Two of
Latin, Mathematics, Physics (first course)
or Chemistry (second course)

ELECTIVE (*Two courses to be taken*)
History
Latin
French (Advanced or Beginners')
German (Advanced or Beginners')
Spanish or Italian
English
Mathematics
Physics (first course)
Chemistry (second course)
Biology
Geology
Graphics, if Mathematics is taken

The student's choice of a Department for junior and senior years is to some extent conditioned by his selection of electives in the sophomore year.

## Junior and Senior Years

Every junior and senior in candidacy for a Bachelor's degree is enrolled either under the general plan of study, taking five three-hour courses, or as a candidate for Final Special Honors, taking four three-hour courses. In either event he must take at least two, and in some cases three, three-hour courses in some one Department. When three three-hour courses throughout the year are required of departmental students, it is so indicated in the following lists. The regulations for Final Special Honors are given in the section entitled "Final Special Honors" on page 133.

### List of Courses of Junior Year

[The numbers prefixed to the courses in the following list refer to the description of those courses on later pages. All courses three hours a week. First term courses have odd numbers; second term courses have even numbers.]

*Note: Several of the courses listed will not be given in 1918-1919.

A. Division of Philosophy

I. *Department of Philosophy*

Two courses throughout year required of Departmental students, one of which must be 301, 302. History of Philosophy.

301, 302. History of Philosophy

303. Problems of Psychology. 304. Advanced Logic

305. General Psychology. 306. Genetic Psychology

(*Advised elective:* 303, 304. Constitutional Government and Jurisprudence)

II. *Department of History and Politics*

301, 302. European History

303. Constitutional Government. 304. Jurisprudence

305. Greek History. 306. Roman History

(*Requisite cognate course:* 305, 306. Economics)

(*Advised elective:* 301, 302 History of Philosophy)

III. *Department of Economics and Social Institutions*
Three courses throughout year required of Departmental students
305, 306. Elements of Economics
307, 308. Historical and Descriptive Economics
309. Elements of Accounting; 312. Statistical Methods

IV. *Department of Art and Archaeology*
301. Ancient Art. 302. Mediaeval Art
303, 304. Ancient and Mediaeval Architecture
305, 306. Architectural Drawing

B. Division of Language and Literature

V. *Department of Classics*
319. Theocritus. 320. Plato
305. Greek History. 306. Roman History
(*Advised elective:* 301, 302. History of Philosophy)
307. Roman Satire. 308. Latin Philosophical Essays
313. Greek Comedy. 314. Greek Tragedy
317. Latin Literature. 318. Roman Literature

VI. *Department of English*
301. English Literature (The Renaissance). 302. Shakespeare
303. Chaucer. 304. History of the English Language
305, 306. Advanced Public Speaking

VIIa. *Department of Modern Languages. Germanic Section*
301, 302. German Literature (Opitz to Lessing)
303, 304. German Literature (Goethe)

VIIb. *Department of Modern Languages. Romanic Section*
301, 302. French Literature (17th century)
305, 306. Italian
307, 308. Spanish

C. Division of Mathematics and Science

VIII. *Department of Mathematics*
305, 306. Coördinate Geometry
307, 308. Analysis
309, 310. Analytical Mechanics

IX. *Department of Physics*
301, 302. Experimental Physics
309, 310. Analytical Mechanics

*Honors Courses in Mathematics and Physics*

305, 306 A. Coördinate Geometry
307, 308 B. Analysis
309, 310 C. Analytical Mechanics
311, 312 D. Theoretical Physics
313, 314 E. Experimental Physics

X. *Department of Chemistry*

General Physics required, unless already taken
301. Qualitative Analysis and 302. Quantitative Analysis I or 401, 402. Quantitative Analysis II, III
305. Physical Chemistry I and 306. Organic Chemistry I

XI. *Department of Geology*

201, 202. Geology (If not taken in sophomore year)
301, 302. Structural Geology
303. Descriptive Mineralogy. 304. Determinative Mineralogy
306. General Palaeontology (second term)
[Either 304 or 306 must be taken; the other may be taken as a free elective]
(*Requisite cognate course:* Biology through the year, or Chemistry through the year, or Graphics and Surveying)

XII. *Department of Biology*

201, 202. General Biology
303, 304. Botany
303. Comparative Osteology; 306. Invertebrate Zoölogy (Students electing the Department take two courses throughout junior year. General Biology 201, 202 must be one of them, if it was not taken in sophomore year. Students who took Biology 201, 202 in sophomore year elect 303, 304 and 305, 306 (*Requisite cognate course:* Chemistry 303, 304 through the year).

XIII. *Department of Astronomy*

301. Elementary Astronomy; 302. Stellar Astronomy
(Cognate course required of candidates for Honors in Astronomy)

Junior courses which are not included in any one of the Departments above:

302. Surveying
302. Physical Geography

## LIST OF COURSES OF SENIOR YEAR

A. Division of Philosophy

I. *Department of Philosophy*

401. Fundamental Problems in Philosophy
402. Present Philosophical Tendencies
403, 404. Experimental Psychology
405. History of Greek Philosophy
407, 408. Ethics

II. *Department of History and Politics*

401, 402. English History
403, 404. American History
405. Municipal Government (1st term)
406. Federal and State Government (2nd term)
407, 408. International Law and Diplomacy
409, 410. Constitutional Interpretation and Administrative Law
421, 422. Roman Law

III *Department of Economics and Social Institutions*

409. Money and Banking; 410. Public Finance
411. European Economic Policy (1st term)
414. Social Economics (2nd term)
415. Corporation Finance; 418. Principles of Accounting

IV. *Department of Art and Archaeology*

401. Italian Sculpture; 402. Greek Sculpture
405. Italian Painting; 406. Northern Painting
407, 408. Classical Architecture
409, 410. Allied Elements

B. Division of Language and Literature

V. *Department of Classics*

419. Greek Epic Poetry; 420. Virgil
421, 422. Roman Law
401. Lucretius; 402. Roman Elegiac Poets
413. Tacitus; 414. Cicero's Political Writings
415. Greek Lyric Poets; 416. Aristotle or 416 A. Thucydides.
423. Classical Influences (1st term)

VI. *Department of English*

Three courses throughout year required of Departmental students
401. English Literature (Restoration and 18th century);

402. English Literature (17th century)
403. English Romanticism; 404. English Literature of the Victorian Period
405. Elementary Old English; 406. Advanced Old English
407, 408. Advanced Composition
409. Classical Influences in English Literature; 410. Poetics

VIIa. *Department of Modern Languages. Germanic Section*
401, 402. German Literature (19th century)
403, 404. German Literature (Middle High German)

VIIb. *Department of Modern Languages. Romanic Section*
401, 402. French Literature (Romantic Movement)
403, 404. Old French
405, 406. French Literature (18th and 16th centuries)
407, 408. Italian Literature
409, 410. Spanish Literature

C. Division of Mathematics and Science

VIII. *Department of Mathematics*
403, 404. Differential Geometry
405, 406. Algebra
407, 408. Projective Geometry
409, 410. Analysis

IX. *Department of Physics*
401, 402. Theoretical Physics (Light and Heat)
403, 404. Theoretical Physics (Electricity and Magnetism)
*Honors Courses in Mathematics and Physics*
403, 404. Differential Geometry
405, 406. Algebra
411, 412. c. Applied Mathematics: Electricity and Magnetism
413, 414. d. Theoretical Physics
415, 416. e. Experimental Physics
401, 402. f. Celestial Mechanics

X. *Department of Chemistry*
Three courses throughout year required of Departmental students:
401. Quantitative Analysis II
403. Organic Chemistry II
405. Physical Chemistry II
410. Advanced Inorganic Chemistry, together with any two of

402. Quantitative Analysis III
404. Organic Chemistry III
406. Physical Chemistry III

or (for those who have taken 401, 402. Quantitative Analysis II and III in Junior year)

403. Organic Chemistry II; 404. Organic Chemistry III
405. Physical Chemistry II; 406. Physical Chemistry III
407. Rise and Development of Chemical Theories;
410. Advanced Inorganic Chemistry

Electives:

402. Quantitative Analysis III
404. Organic Chemistry III
406. Physical Chemistry III
407. Rise and Development of Chemical Theories

XI. *Department of Geology*

Three courses throughout year required of Departmental students

401, 402. Historical Geology
403. Structural and Dynamic Geology; 404. Economic Geology
405, 406. Practical Geology
407. Crystallographic Mineralogy; 408. Optical Mineralogy

XII. *Department of Biology*

Three courses throughout year required of Departmental students

401. Comparative Anatomy of Vertebrates; 402. Embryology
403. Histology. 404 Histology, or 406. Palaeontology
407, 408. Physiology
409, 410. Genetics

XIII. *Department of Astronomy*

401, 402*f*. Celestial Mechanics
403, 404. Practical Astronomy

Senior courses which are not in any one of the Departments above:

401, 402. Sanskrit
407. History of Modern Science (1st term)
401. History of Psychology of Education (1st term)
401, 402. Heat Engines

## METHOD OF UNDERGRADUATE INSTRUCTION

Instruction in Physics, Chemistry, Biology, and Astronomy is given not only by means of lectures and formal tests upon textbooks, but also by means of practical experimental work in the several laboratories and in the working observatory. In Mathematics, besides the stated class exercises and occasional lectures, certain hours are set apart each week during which the instructors of the Department are accessible for informal consultation by all students who wish further explanation or discussion of such portions of their mathematical work as most interest them or give them the most difficulty. In Geology, similarly, there is field work and constant informal resort to the geological museum, added to frequent conferences with the instructors in the several courses on the reading assigned.

Instruction in what may be called the reading departments—Philosophy, History and Politics, Economics and Social Institutions, Art and Archaeology, and the languages, is given chiefly by means of informal conferences on the reading assigned. A "course" consists, not of the lectures given in connection with it or of the study of a particular textbook relied on by the lecturer, but of a prescribed body of reading to which the lectures given are complementary. In each course the student is made responsible to a particular preceptor for his reading, and reports to him once a week for conference. The student is expected to attend every conference, and may be absent only for unavoidable reasons. Failure to keep his preceptorial appointments will affect his final standing.

At each conference the preceptor usually meets from three to six of the men assigned him. The methods of conference differ, of course, with the character of the subject, but are always informal, being intended not as a quiz or recitation or drill, nor as a method of coaching, but,

so far as the preceptor is concerned, as a means of finding out how thoroughly and intelligently the student has done his reading, and, so far as the student is concerned, as a means of stimulation and enlightenment with regard to the study in hand. His work is explained to him where it is obscure, and its scope and implications are extended out of the wider reading and maturer scholarship of the preceptor. Study centers upon these conferences, as in the scientific departments it centers upon the laboratory. They are meant to supply to study the life which it cannot have in the formal exercises of the classroom and to bring the students into an intimate contact with their teachers which is hardly possible in other methods of instruction.

One result of this method of instruction is to lay the principal emphasis of work upon the constant reading required, upon what is ordinarily called "term work," rather than upon preparation for occasional examinations. In reckoning the "standing" of a student more weight is given to his work with his preceptor than to his performance in examination. Each preceptor is expected to report in departmental meeting upon the work of the men assigned him, and it is only upon his recommendation that they are admitted to examinations. He may recommend the debarment from examination of any of the men assigned to him who seem to have neglected their work or to have done it too indifferently. He makes no formal report to any university officer of their absences from his appointed conferences or of their attendance, but forms his own estimate of their thoroughness and faithfulness and gives his judgment upon the basis of an intimate observation.

Members of the Faculty of all ranks do "preceptorial" work; those who lecture or conduct the formal class exercises acting as preceptors as well as those who devote the principal part of their time to this special method of teaching.

## HONORS

Honors are of two kinds, *General* and *Special.*

*General Honors* are awarded for general excellence in studies at the close of freshman and sophomore years according to the following provisions: At the close of the freshman and sophomore years High General Honors are given to those whose average rank for the year is within the first general group, and General Honors to those whose average rank for the year is within the second general group. No General Honors are awarded after the sophomore year.

### FINAL SPECIAL HONORS

OPEN TO CANDIDATES FOR A BACHELOR'S DEGREE

*Final Special Honors* are awarded at graduation only. The regulations are as follows:

1. A student who has attained a standing of first or second general group at the end of sophomore year may be enrolled as a candidate for Final Special Honors on his own request.

A student whose standing at the end of sophomore year is not lower than the third general group, and within the first or second group in the department he proposes to enter, or in courses preliminary thereto, may be enrolled on his own request as a candidate for Final Special Honors in that department.

Any student who at the end of sophomore year falls short of these requirements may be enrolled only on the recommendation of the department or departments concerned.

A student who has been enrolled under the general plan of study during the first term of his junior year, but who during that term has maintained a standing at least as high as is required of a candidate for Honors that he may continue in candidacy (see § 6), may be enrolled at the beginning of the second term of his junior year as a candidate for

Final Special Honors on the recommendation of his department.

A student who has been enrolled under the general plan of study during his junior year, but who during that year has maintained a standing at least as high as is required of a candidate for Honors that he may continue in candidacy (see § 6), may be enrolled at the beginning of his senior year as a candidate for Final Special Honors on the recommendation of his department.

Final Special Honors may be awarded to a senior who has not taken the junior year in Princeton.

2. Every junior or senior in candidacy for a bachelor's degree who is enrolled as a candidate for Final Special Honors shall have a schedule of four courses, of which at least two shall be in some one department.

3. A candidate for Final Special Honors shall do more advanced work in the courses of his department than is required of a student who is enrolled under the general plan of study.

4. A candidate for Final Special Honors shall take a final comprehensive examination which shall consist of not less than two written papers of three to four hours each, or one paper of three to four hours supplemented by an oral examination of one hour. Special tests on laboratory work, or the preparation of a thesis, may be required in addition.

There shall be no second term senior examinations in departmental courses for candidates for Final Special Honors.

5. Final Special Honors are of three grades, Highest Honors, High Honors, and Honors. They are based upon the standing which a student has maintained in the courses of his department in junior and senior years and upon the final comprehensive examination.

6. No candidate for Final Special Honors may continue

in candidacy if at the close of any term he fails to maintain an average second group standing in the courses required in his department and taken by him up to that time, or fails to maintain an average standing of third general group calculated from the beginning of junior year. In case of such a failure, he shall be required to enroll under the general plan of study. At the end of an additional term after such a failure a student who has regained an average standing of second group in his department courses and third general group, in both cases calculated from the beginning of junior year, may be enrolled as a candidate for Final Special Honors.

# DEPARTMENT OF CIVIL ENGINEERING

## The Course of Study

Until the year 1917-18 the course in civil engineering occupied four years of prescribed studies and led to the degree of Civil Engineer. War conditions pointed imperatively to the necessity of shortening this time, and with the year 1917-18 a three-year intensive course in civil engineering, consisting of six terms of seventeen weeks and two summer terms of nine weeks each, was established. The latter followed the freshman and sophomore years respectively. All of the field work, much of the laboratory work, and some fundamental studies in pure and applied mathematics, were placed in the summer terms. The first summer term was successfully conducted, July 17 to August 20, 1918. A description of the studies included in the three-year course is given on pages 198-203.

It was the intention of the University to continue this three-year course in engineering to the close of the war, but with the passage of the new selective service conscription bill in August the establishment of the Students' Army Training Corps in all of the colleges of the country and the issuing by the Committee on Education of the War Department of a prescribed curriculum limited to eight terms of twelve weeks each (four terms to the year) for all engineering students in the S. A. T. C., the University immediately reorganized its courses to conform with the Government requirements. The number of non-military students is so small that it has not been deemed advisable to maintain the former curriculum, and all engineering students, whether military or non-military, are required to take the course outlined by the Committee on Education. The necessary modifications have likewise been made to adapt the Government

curriculum to the advanced requirements of the second, third, and fourth year students. The fourth-year men are the last class in the old four-year course.

The following is the synopsis of the courses in civil engineering conforming with the Government curriculum. The content of these courses is, in general, similar to that given for the three-year course [pages 198-203].

*First Year Students

| *First Term* | | *Fourth Term* | |
|---|---|---|---|
| Mathematics | 12 | Mathematics | 9 |
| Chemistry | 12 | Physics | 14 |
| Drawing | 9 | Mechanics | 15 |
| War Issues | 9 | Surveying | 9 |
| Military | 11 | Military | 6 |
| Total hours per week | 53 | Total hours per week | 53 |

| *Second Term* | | *Fifth Term* | |
|---|---|---|---|
| Mathematics | 12 | Structures | 6 |
| Chemistry | 12 | Materials | 10 |
| Descriptive Geometry | 9 | Railroad Engineering | 15 |
| War Issues | 9 | Highway Engineering | 6 |
| Military | 11 | Map Reading, etc. | 2 |
| | | Geology | 8 |
| Total hours per week | 53 | Military | 6 |
| | | Total hours per week | 53 |

| *Third Term* | | *Sixth Term* | |
|---|---|---|---|
| Mathematics | 12 | Structures | 9 |
| Physics | 14 | Bridge Design | 7 |
| Applied Mechanics | 15 | Railroad Engineering | 9 |
| Surveying | 3 | Hydraulics | 13 |
| Drawing | 3 | Electrical Engineering | 9 |
| Military | 6 | Military | 6 |
| Total hours per week | 53 | Total hours per week | 53 |

* First year students are those who enter as freshmen.

*Seventh Term*

| | |
|---|---|
| Structures | 12 |
| Bridge Design | 5 |
| Heat Engineering | 12 |
| Hydraulic and Sanitary Engineering | 9 |
| Electrical Engineering | 9 |
| Military | 6 |
| Total hours per week | 53 |

*Eighth Term*

| | |
|---|---|
| Structures | 12 |
| Hydraulic and Sanitary Engineering | 9 |
| Heat Engineering | 9 |
| Railroad Design | 3 |
| Sanitary Science and Public Health | 1 |
| Business Law & Accounting. | 6 |
| Military | 6 |
| Total hours per week | 53 |

*SECOND YEAR STUDENTS

*First Term*

| | |
|---|---|
| Mathematics | 12 |
| Electrical Engineering | 9 |
| Heat Engineering | 10 |
| Mechanics | 8 |
| Physics | 8 |
| Military | 6 |
| Total hours per week | 53 |

*Second Term*

| | |
|---|---|
| Mechanics | 8 |
| Electrical Engineering | 9 |
| Materials | 10 |
| Hydraulics | 8 |
| Heat Engineering | 12 |
| Military | 6 |
| Total hours per week | 53 |

*Third Term*

| | |
|---|---|
| Structures | 15 |
| Highway Engineering | 6 |
| Hydraulic and Sanitary Engineering | 9 |
| War Issues | 9 |
| Geology | 8 |
| Military | 6 |
| Total hours per week | 53 |

*Fourth Term*

| | |
|---|---|
| Structures ) Bridge Design) | 15 |
| Hydraulic and Sanitary Engineering | 10 |
| Descriptive Geometry | 9 |
| Railroad Engineering | 11 |
| Map Reading and Topographical Drawing | 2 |
| Military | 6 |
| Total hours per week | 53 |

*Fifth Term*

| | |
|---|---|
| Structures ) Bridge Design) | 16 |
| Railroad Design | 14 |
| Sanitary Science and Public Health | 1 |
| Business Law | 6 |
| Hydraulics | 10 |
| Military | 6 |
| Total hours per week | 53 |

* Second year students are those who have had the freshman year and one summer term.

†THIRD YEAR STUDENTS

| *First Term* | | *Second Term* | |
|---|---|---|---|
| Electrical Engineering | 9 | Electrical Engineering | 9 |
| Heat Engineering | 10 | Structures | 9 |
| Structures | 11 | Bridge Design | 8 |
| Railroad Engineering | 9 | Hydraulics | 9 |
| Military | 6 | Heat Engineering | 12 |
| | — | Military | 6 |
| Total hours per week | 53 | | — |
| | | Total hours per week | 53 |

‡FOURTH YEAR STUDENTS

| *First Term* | | *Second Term* | |
|---|---|---|---|
| Railroad Design | 9 | Elective | 11 |
| Heat Engineering | 12 | Bridge Design | 12 |
| Bridge Design | 13 | Sanitary Engineering | 12 |
| Hydraulics | 13 | Heat Engineering | 12 |
| Military | 6 | Military | 6 |
| | — | | — |
| Total hours per week | 53 | Total hours per week | 53 |

Further changes in the curriculum may have to be made to meet most promptly and efficiently the needs of the army and navy, and only the courses of studies specified for the first term of the present year may be regarded as fixed. About a third of the men now taking the full engineering courses in Princeton are in the Naval Unit, who, as they advance, will be allowed to semi-specialize in mechanical engineering. Such future differentiation is not at present indicated in the synopsis of studies.

The hours set forth in the programs represent the total time per week devoted to each subject, including examinations, lectures, recitations, laboratory work and supervised study. All S. A. T. C. students live in military dormitories

† Third year students are those who have had the freshman and sophomore years and one summer term.

‡ Fourth year students are those who have had the freshman, sophomore and junior years.

under the regulations of the military or naval commandants. Engineering students are required to take eleven hours per week of military instruction during the first and second terms, and six hours per week for the remainder of the program.

The particular object of these special courses in engineering is to qualify the men pursuing them to become candidates for engineer officers' training camps. The time required for such preparation is necessarily longer than in other branches of military service and cannot be based upon an age limit as in those other branches. On the other hand, the Committee on Education states that it must not be inferred that every student entering upon an engineering course will be kept at college until he completes it, but that the time will depend upon the needs of the service and the academic records of the student.

The curriculum issued by the Committee on Education is almost identical in content with that of the former four and three year engineering courses at Princeton, but intensified to compress it into the shortened time. Students, therefore, who pursue this course are preparing themselves directly not only for possible service in the Engineers Corps of the army or in the navy, during the war, but for important civilian service as engineers during the reconstruction period after the war.

When the University is no longer required to adapt its courses to a curriculum issued by the War Department, it will resume its former courses, with such modifications as are necessary to meet most efficiently existing conditions.

# PART VI

# DEPARTMENTS OF THE UNIVERSITY

# *COURSES OF INSTRUCTION

## A. DIVISION OF PHILOSOPHY

### I. DEPARTMENT OF PHILOSOPHY AND PSYCHOLOGY

THE PRESIDENT, PROFESSORS WARREN, †KEMP SMITH, JOHNSON, †BOWMAN, †SPAULDING, FITE (CHAIRMAN), WHITNEY, †MC COMAS, AND LONGWELL; †DR. COTTON AND MR. MORE.

201, 202. Introduction to Philosophy: General Philosophy, Psychology, and Ethics. Sophomore required course, both terms, 3 hours a week. Lecturers, the President and Professor Fite; classroom instructors, Professors Johnson, Fite, Whitney, and Longwell.

301. History of Philosophy. Greek and Mediaeval Philosophy. Junior course, first term, 3 hours a week. Prerequisite to Course 302. Lecturer, Professor Longwell; Preceptors, Professors Johnson, Whitney, and Longwell.

302. History of Philosophy. Modern Philosophy. Junior course, second term, 3 hours a week. Prerequisite course, 301. Lecturer, Professor Longwell; Preceptors, Professors Johnson, Whitney, and Longwell.

303. Advanced Psychology. Nature and scope of psychology; relation of body and mind; the subconscious; the stream of thought; the consciousness of self; emotion; voluntary activity, etc. Junior course, first term, three hours a week. Professor Johnson.

304. Logic. Junior course, second term, 3 hours a week. Professor Whitney.

* Courses between 101 and 200 are for freshmen, between 201 and 300 for sophomores, between 301 and 400 for juniors, and between 401 and 500 for seniors. Odd numbered courses are for first term, even numbered for second.
† Absent.

305. General Psychology. Outline of the science of psychology. Junior course, first term, 3 hours a week. Professor Warren.

306. Genetic Psychology. Evolution of behavior and consciousness in the lower species and man. Junior course, second term, 3 hours a week. Professor Warren.

*401. Fundamental Problems of Philosophy. Senior course, first term, 3 hours a week. Professor Fite.

*402. Present Philosophical Tendencies. Senior course, second term, 3 hours a week.

403. Experimental Psychology. Introductory course. Lectures and laboratory. Senior course, first term, 3 hours a week. Course 305 is recommended as preparatory to this course. Professor Warren.

404. Experimental Psychology. Continuation of 403. Lectures and laboratory. Senior course, second term, 3 hours a week. Professor McComas.

*405. History of Greek Philosophy. Senior course, first term, 3 hours a week. Professor Bowman. [Not given, 1918-1919.]

*407, 408. Ethics. Senior course, both terms, 3 hours a week. Professor Fite.

*409. Platonism and Christian Theology. Senior course, first term, 3 hours a week. Mr. More.

## FINAL SPECIAL HONORS

Two courses in the Department are to be taken throughout junior and senior years.

Final Special Honors may be taken either in Philosophy or in Psychology. In Philosophy the additional Honors work shall be as follows:

Plato, *Republic*†; Aristotle, *Ethics;* Descartes, *Meditations*†; Berkeley, *Principles of Human Knowledge*†; Hume,

* Also listed as a graduate course.

*Enquiry Concerning the Human Understanding*†; Spinoza, *Ethics,* or Leibnitz, *Selections;* Kant, *Critique of Pure Reason*†; Kant, *Critique of Practical Reason*†; Green, *Prolegomena to Ethics;* Sigwart, *Logic* (portions only); William James, *Principles of Psychology*†.

[Note: The books marked by a dagger are already employed, in whole or part, as reading in the regular courses.]

In Psychology the additional Honors work shall consist of reading and research in: (1) Color Vision, Space Perception (analytic, genetic, experimental, theory), Association (historical, experimental), Emotion (theories, laboratory tests), Attention and Volition, and Psychophysical Methods and Problems; and (2) British Philosophy from Bacon to Hume, with reading of Locke, *Essay Concerning the Human Understanding* (portions only), Berkeley, *Principles*† and *Dialogues,* Hume, *Treatise on Human Nature* (Book 1), Leibnitz, *Selections.*

Candidates for Final Special Honors in Psychology shall take at least one course in Psychology in each term of junior and senior years.

Candidates for Final Special Honors in Philosophy or Psychology shall take the usual term examinations in junior and senior years, except that in place of the regular second term senior examinations a set of final examinations on the additional Honors work of junior and senior years will be substituted.

Each candidate for Final Special Honors is also required by March 14 of senior year to present a thesis on some central topic; the subject proposed to be reported to and approved by the Department not later than the close of junior year.

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For graduate courses in Philosophy, see under the Graduate School.

## II. DEPARTMENT OF HISTORY AND POLITICS

PROFESSORS †PAUL VAN DYKE, WESTCOTT, FORD, †MC ELROY, CORWIN, ABBOTT, MUNRO (CHAIRMAN), †BROWN, MYERS, SHIPMAN, WERTENBAKER, C. R. HALL, W. P. HALL, CHALFANT ROBINSON, AND †FRITTS; †DR. FOX.

201, 202. Mediaeval History. Sophomore elective, both terms, 3 hours a week. Professor Munro.

301, 302. European History from the eighteenth to the twentieth century. Junior course, both terms, 3 hours a week. Professor W. P. Hall.

303. Constitutional Government; with especial reference to the political institutions of England, France, Switzerland, Germany, and the United States. Junior course, first term, 3 hours a week. Professor Myers.

304. Elements of Jurisprudence. Junior course, second term, 3 hours a week. Professor Myers.

305. Greek History. (Classics 305.) Junior course, first term, 3 hours a week. Professor Prentice.

306. Roman History to 400 A. D. (Classics 306.) Junior course, second term, 3 hours a week. Professor A. C. Johnson.

*401, 402. Constitutional History of England. Senior course, both terms, 3 hours a week. Professor Shipman.

*403, 404. History of the United States. Senior course, both terms, 3 hours a week. [Open to juniors in 1918-1919, but will not count as a junior departmental course.] Professors Wertenbaker and C. R. Hall.

*405. Municipal Government in the United States and other countries. Senior course, first term, 3 hours a week. Professor Ford.

*406. Federal and State Government. Senior course, second term, 3 hours a week. Professor Ford.

† Absent.
* Also listed as a graduate course.

*407, 408. International Law and Diplomacy. Senior course, both terms, 3 hours a week. [Second term only, 1918-1919.] Professor Brown.

409, 410. Politics. Constitutional Interpretation and Administrative Law. Senior course, both terms, 3 hours a week. Professor Corwin.

*421, 422. (Classics 421, 422) Roman Law. Senior course, both terms, 3 hours a week. Professor Westcott.

## FINAL SPECIAL HONORS

Juniors and seniors in the Department of History and Politics may become candidates for Special Honors in accordance with the general regulations for Final Special Honors. The special regulations are as follows:

1. Candidates for Final Special Honors shall take:

(a) Two courses in the Department, together with Economics 305, 306, in junior year, doing the regular preceptorial and classroom work and passing all tests and examinations given in those three courses.

(b) Two of the senior courses offered by the Department, doing the regular preceptorial and classroom work and passing all tests and all examinations, except the final regular examination in the two courses of senior year in which they are pursuing Honors work. In place of this regular examination candidates for Final Special Honors shall take an Honors examination covering the entire period of their Honors studies.

2. In place of the fifth course required of students not in candidacy for Honors, candidates for Final Special Honors will be required to do more extensive and advanced work in the courses which they may select. The Honors

* Also listed as a graduate course.

work will consist of supplementary reading and additional exercises and reports.

A statement of Honors reading will be issued.

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For graduate courses in History and Politics, see under the Graduate School.

## III. DEPARTMENT OF ECONOMICS AND SOCIAL INSTITUTIONS

PROFESSORS *FETTER, KEMMERER (ACTING CHAIRMAN), *MC CLELLAN, *ADRIANCE, *MC CABE, *KNAUTH, *BAUER, *CAROTHERS, AND HOWARD; *DR. YOUNG.

305, 306. Elements of Economics. The fundamental theories of economics and some of their more important applications and exemplifications. One lecture a week and two recitations in small groups. Junior course, both terms, 3 hours a week. Prerequisite to Economics 409, 410, 411, 414. Professors Kemmerer and Howard.

307, 308. Historical and Descriptive Economics. A study of the main lines of English and American industrial development. Junior course, both terms, 3 hours a week. Open only to departmental students. Professor McCabe. [Not given, 1918-1919.]

309. Elements of Accounting. The fundamental theory of debits and credits. Junior course, first term, 3 hours a week. Course 305, 306 must precede or accompany this course. Professor Howard.

312. Statistical Methods. The theory and methods of statistics. Lecture and laboratory exercises. Junior course, second term, 3 hours a week. Courses 305 and 306 must precede or accompany this course. Professor Howard.

* Absent.

*409. Money and Banking. The fundamental principles of money, credit, and banking, and their exemplificatio in modern currency and banking history, particularly that of the United States. Lectures and weekly conferences. Senior course, first term, 3 hours a week. Prerequisite courses: Economics 305 and 306. Professor Kemmerer.

*410. Public Finance. The leading principles of public finance, and some of their practical applications in modern history, particularly that of the United States. Senior course, second term, 3 hours a week. Prerequisite courses: Economics 305, 306. Professor Kemmerer.

411. European Economic Policy in the Nineteenth Century. Senior course, first term, 3 hours a week. Prerequisite courses: Economics 305, 306. Professor McClellan. [Not given, 1918-1919.]

414. Social Economics. Senior course, first term, 3 hours a week. Prerequisite courses: Economics 305, 306. Professors Fetter and Carothers. [Not given, 1918-1919.]

415. Corporation Finance. Lectures and laboratory exercises. Senior course, first term, 3 hours a week. Professor Carothers. [Not given, 1918-1919.]

418. Principles of Accounting. A continuation of course 309. Lectures and laboratory exercises. Senior course, second term, 3 hours a week. Professor Bauer. [Not given, 1918-1919.]

## FINAL SPECIAL HONORS

Candidates for Final Special Honors in this Department shall have attained second general group at the end of sophomore year, or third general group with second group in Sophomore History.

* Also listed, with additional work, as a graduate course.

Applications from other students who have done good work in Mathematics, History, and Philosophy in their freshman and sophomore years will be considered by the Department.

Two courses required in the Department throughout the junior and senior years.

The reading of a selected group of texts to supplement the regular courses is required of honors students.

A written report on some economic problem is required each term.

A comprehensive examination is given in the Honors Course at the end of the senior year.

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For graduate courses in Economics and Social Institutions, see under the Graduate School.

## IV. DEPARTMENT OF ART AND ARCHAEOLOGY

PROFESSORS MARQUAND (CHAIRMAN), BUTLER, *MATHER, MOREY, AND *ELDERKIN; DR. *SMITH, MR. *MORGAN, MR. PARK, AND MR. PLATT.

301. Ancient Art. A general outline of the history of ancient sculpture, painting and the minor arts. Lectures and required reading. Junior course, first term, 3 hours a week. Lecturer and preceptor, Professor Morey.

302. Mediaeval Art. A general outline of the history of Early Christian, Byzantine, Romanesque, and Gothic sculpture, painting, and the minor arts. Lectures and required reading. Junior course, second term, 3 hours a week. Lecturer and preceptor, Professor Morey.

303. Ancient Architecture. A course in the history of Egyptian, Assyrian, Persian, Greek, and Roman architecture. Two hours of lectures and one of historical

* Absent.

drawing and reading. Junior course, first term, 3 hours a week. Prerequisite to course 407, 408. Lecturer, Professor Butler; preceptors, Professor Butler and Mr. Park.

304. Mediaeval Architecture. The history of Early Christian, Byzantine, Romanesque and Gothic architecture. Two hours of lectures and one of historical drawing and reading. Junior course, second term, 3 hours a week. Prerequisite course: 303. Ancient Architecture. Lecturer, Professor Butler. Preceptors, Professor Butler and Mr. Park.

305, 306. Architectural Drawing. A course in shades and shadows and perspective given from the architectural point of view, and offered especially to students intending to prepare for the future study and practice of architecture as a profession. Junior course, both terms, two hours of lectures and one of instruction in drawing each week. Prerequisite to course 409, 410. Lecturer and instructor in drawing, Mr. Park.

*401. Renaissance and Modern Sculpture. A general treatment of sculpture from the end of the Middle Ages to modern times. Lectures and preceptorial reading. Senior course, first term, 3 hours a week. Prerequisite: one of the junior courses in Art and Archaeology. Lecturer and preceptor, Professor Morey.

*402. Greek Sculpture. A study of the technique, forms, composition and history of Greek sculpture. Lectures and required reading. Senior course, second term, 3 hours a week. Prerequisite course, Ancient Art 301. Lecturer and preceptor, Professor Morey.

*405. The Revival of Painting in Italy. An outline history of painting in Italy from Cavallini to Michelangelo, with especial regard to the Florentine School. Lec-

* Also listed as a graduate course.

tures and required reading. Senior course, first term, 3 hours a week. Prerequisite course: one of the junior courses in Art and Archaeology. Lecturer and preceptor, Mr. Platt.

*406. Northern Painting. Especial attention will be given to the Flemish School, but the chief painters of the Dutch School will be studied, and a few lectures on typical French and English masters of the nineteenth century will treat the leading modern tendencies in the light of their historic origins. Lectures and required reading. Senior course, second term, 3 hours a week. Prerequisite course: one of the junior courses in Art and Archaeology. Lecturer and preceptor, Mr. Platt.

*407, 408. Classical Architecture. A detailed study of the architecture of the Greeks and Romans in its historical development in antiquity and during the Classical Revival. The second term is devoted to the history of Renaissance and New Classic architecture. Lectures and preceptorial reading. Senior course, both terms, 3 hours a week. Prerequisite course, Ancient Architecture 303. Lecturer and preceptor, Professor Butler.

409, 410. Allied Elements. The application of Classic architectural principles to the solution of problems in design suitable for beginners. Senior course, both terms, 3 hours a week. Prerequisite course, Architectural Drawing 305, 306. Lecturer and instructor in drawing, Mr. Park.

## FINAL SPECIAL HONORS

Candidates for Final Special Honors in Art and Archaeology must in sophomore year have made a first or second general group; or if in the third general group, they must

* Also listed, with additional work, as a graduate course

have obtained a first or second group in such courses in classics or modern languages as they may have taken. During the junior and senior years they are required to take at least two courses each term in this Department, exclusive of the courses in Architectural Drawing 305, 306, and Allied Elements 409, 410, the exclusion applying to candidates for Final Special Honors with reference to Architecture. They shall follow the regular lectures, take the regular tests and a final comprehensive examination, but shall be segregated for preceptorial reading, and in certain courses prepare a written thesis on an assigned subject.

For graduate courses in Art and Archaeology, see under the Graduate School.

## B. DIVISION OF LANGUAGE AND LITERATURE

### DEPARTMENT OF CLASSICS

DEAN WEST, PROFESSORS WESTCOTT, ROBBINS, *PRENTICE, *CAPPS, STUART, ABBOTT (CHAIRMAN), DAVID *MAGIE, BASORE, HUTSON, JOHNSON, AND *DEWING.

#### FRESHMAN AND SOPHOMORE YEARS

101. Plato. The *Apology,* the *Crito,* and selections from other dialogues. Freshman course, required for the degree of A. B., first term, 3 hours a week. Professors Stuart, Hutson, and Johnson.

102. Greek Poetry. Selections representative of various periods of Greek poetry. Freshman course, required for the degree of A. B., second term, 3 hours a week. Professors Hutson and Johnson.

103. Selections from Latin historical literature, including such authors as Livy, Sallust, and Cicero. The object of the course is to develop ability to translate at sight. Freshman course, required of all candidates for the degrees of A.B. and Litt.B., and an alternative elective with a modern language for candidates for the degree of B.S., first term, 3 hours a week. Professors Westcott, Magie, Basore, and Johnson.

104. Tacitus, Pliny, and Latin Verse. Freshman course, required of all candidates for the degrees of A. B. and Litt.B., and an alternative elective with a modern language for candidates for the degree of B. S., second term, 3 hours a week. Professors David Magie, Westcott, Basore, and Johnson.

201. Greek Tragedy. Selected plays. Lectures on the development of the drama, on the presentation of

* Absent.

plays, on the authors and their works. Sophomore course, required of candidates for the degree of A.B. on the old plan, 3 hours a week. Professors Robbins, Capps, and Hutson.

202. The Odyssey. Lectures and assigned readings in the history of the epic and the romance. Sophomore course, elective for candidates for the degree of A. B. on the old plan, second term, 3 hours a week. Professor Robbins.

203. Roman Comedy. Reading of selected plays of Plautus and Terence. Sophomore course, elective for candidates for the degree of A.B. on the old plan, and also elective for candidates for the degrees of Litt.B. and B.S. on the new plan, first term, 3 hours a week. Professors Stuart, Abbott, and Basore.

204. Horace and Catullus. Horace: Odes and Satires; Catullus: Selections. Sophomore course, required of candidates for the degree of A.B. on the old plan, and also elective for candidates for the degrees of Litt.B. and B.S. on the new plan, second term, 3 hours a week. Dean West, Professors Abbott, Stuart, Hutson, Basore, and Johnson.

JUNIOR AND SENIOR YEARS

317. Latin Literature of the Republic. Study of the development of the Latin language, of the national character, and of the several literary forms. Junior course, first term, 3 hours a week.

Candidates for Honors will have additional reading in the authors, and in the histories of literature.

318. Latin Literature of the Empire. A survey of the history of Latin Literature from Augustus to Marcus Aurelius, with detailed study of representative authors

of the period; lectures and translation. Junior course, second term, 3 hours a week. Professor Basore.

Candidates for Honors will be expected to read additional authors and works and to present written reports upon these and upon collateral reading in English.

306. Roman History to 400 A. D. Roman imperialism, and the main governmental, economic, social, and religious developments in the Republic and the Empire. Junior course, second term, 3 hours a week. (May count as a course in History.) Professor Johnson.

307. Roman Satire. The Satires and the Epistles of Horace and the Satires of Juvenal. In addition, selections from other writers, illustrative of the development of Roman Satire, will be read. Junior course, first term, 3 hours a week. Professor Stuart.

Candidates for Honors will be expected to read the Satires and Epistles of Horace entire and selections from Juvenal in addition to the assignment for the whole class; collateral reading in English and occasional written reports will also be required.

308. Latin Philosophical Essays. Reading and discussion of Books I, II, and V of the Tusculan Disputations of Cicero and of selected essays of Seneca. Junior course, second term, 3 hours a week.

Candidates for Honors will also read part of Cicero, *De Officiis*, and Books III and IV of the Tusculan Disputations.

305. Greek History. Two lectures will be given each week on Greek History. The third hour will be devoted to preceptorial conferences on reading, in English, on special topics. Junior course, first term, 3 hours a week. (May count as a course in History.) Professor Prentice. [Not given, 1918-1919.]

313. Greek Comedy. Two plays of Aristophanes will be studied closely, and a third read rapidly. Junior course, first term, 3 hours a week. Professor Capps.

Candidates for Honors will also read the *Birds* of Aristophanes, the *Epitrepontes* of Menander, and a few of the most significant fragments of lost plays.

314. Greek Tragedy. Aeschylus and Sophocles. Selected plays; study of the literary quality, myths, dramatic structure, and stage-setting. Lectures on the development of Greek Tragedy. Collateral reading. Junior course, second term, 3 hours a week. Professor Robbins.

Candidates for Honors will read one additional play of each poet in the original and several in translation. Readings in Butcher, Capps, Murray, and Symonds will also be assigned.

319. Theocritus. Reading of Theocritus, Bion, and Moschus. Junior course, first term, 3 hours a week. [Not given, 1918-1919.]

320. Plato. *Phaedo, Protagoras, Gorgias, Symposium, Republic,* in whole or in part. Study of form, style, and philosophic content. Junior course, second term, 3 hours a week. Professor Hutson.

*401. Lucretius. Reading of selected books of the *De Rerum Natura.* Senior course, first term, 3 hours a week. Professor Basore. [Not given, 1918-1919.]

402. Roman Elegiac Poets. Lectures on the history of the elegy; reading of selections from Tibullus, Propertius, and from the *Amores* of Ovid. Senior course, second term, 3 hours a week. Professor Stuart.

Candidates for Honors will read the Corpus Tibullianum, Propertius, and the *Amores* of Ovid entire; also selections from the Greek writers of elegy and

from the *Heroides* of Ovid. Collateral reading and written reports will be required.

*413. Tacitus. Senior course, first term, 3 hours a week. Professor Westcott. [Not given, 1918-1919.]

414. Cicero's Political Writings. Cicero's *De Republica* and *De Legibus,* together with some of his speeches and letters. Senior course, second term, 3 hours a week. Professor David Magie. [Not given, 1918-1919.]

415. Greek Lyric Poets. A survey of Greek lyric poetry from the seventh century to the third century. Senior course, first term, 3 hours a week. Professor Robbins.

Candidates for Honors will read about 1000 lines in Pindar and Bacchylides in addition to the work assigned to the others and will prepare a special report upon some selected author or subject.

*416. Aristotle. Books I, II, III, V and X of the Nicomachean Ethics will be read. Senior course, second term, 3 hours a week. [Not given, 1918-1919.]

*†416a. Thucydides (alternative to Aristotle 416). Books I-II of Thucydides' history will be read. Discussion and collateral reading. Senior course, second term, 3 hours a week. [Not given, 1918-1919.]

419. Greek Epic Poetry. The *Iliad* will be read in class, two hours each week. The third hour will be given to lectures and conferences, collateral reading, and reports. Senior course, first term, 3 hours a week. Professor Prentice. [Not given, 1918-1919.]

420. Virgil. The Bucolics, portions of the *Georgics,* and

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* Also listed, with additional work, as a graduate course.
† Thucydides will be given in place of Aristotle only if elected by a sufficient number.

the *Aeneid,* Books VII-XII. Study of the literary relationships, the poetic technique, and the significance from the standpoint of contemporaries of these works. Senior course, second term, 3 hours a week. Professor David Magie.

*421, 422. Roman Law. The History and Institutes of Roman Law. Students in the Department of Classics, and others who desire to do so, will read the *Institutes* of Gaius and of Justinian in Latin. Senior course, both terms, 3 hours a week. Professor Westcott.

423. (English 409.) The Influence of the Classics in English Literature. Readings in Aeschylus, Plato, Aristotle, Theocritus, Bion, Moschus, Horace, Martial; Spenser, Milton, Herrick, Pope, Shelley, Wordsworth, Keats, Tennyson, Swinburne. Senior course, first term, 3 hours a week. Professor Osgood.

Honors readings, besides an extension of the reading in Plato, Spenser, Milton, and Swinburne, will include selections from Sophocles, Lucretius, Virgil, Mantuan, Dryden, Thomson, Landor, and special assignments.

All junior and senior courses offered by the Department of Classics are open alike to candidates for Final Special Honors, to students enrolled under the general plan of study who elect the Department, and to qualified students in other departments.

Students not candidates for Final Special Honors in Classics are not required to do the supplementary reading announced in connection with any of the courses described on the foregoing pages.

## FINAL SPECIAL HONORS

Candidates for Final Special Honors in Classics must

* Also listed as a graduate course.

choose the two departmental courses required of them each term from the following list:*

JUNIOR COURSES

First Term: Latin Literature 317, Roman Satire 307, Greek Comedy 313.

Second Term: Roman Literature 318, Latin Philosophical Essays 308, Greek Tragedy 314.

SENIOR COURSES

First Term: Lucretius 401, Tacitus 413, Greek Lyric Poets 415, Classical Influences 423.

Second Term: Roman Elegiac Poets 402, Cicero's Political Writings 414, Aristotle 416 (Thucydides 416a†).

Candidates for Final Special Honors in Classics are further required to do additional reading, both *special* and *general.* A definite assignment of special reading is to be completed each term in connection with one or the other (not both) of the two courses selected from the preceding list. A brief account of the scope of the special reading is appended to the description of these courses. A detailed statement of it may be had from either Professor Robbins, Professor Basore, or Professor Hutson. The special reading is to be followed by the candidate under the supervision of the instructor giving the course, and the candidate's knowledge of the books assigned will be tested in a special examination of the end of that course.

A definite assignment of general reading is also to be completed before the close of the junior year. The candidate's progress will be informally tested from time to time, and at the end of his junior year his mastery of the books assigned will be tested by a final examination upon them.

* For the year 1918-1919 seniors may elect junior courses, and qualified juniors may elect senior courses, in making up their quota of departmental courses.

† Thucydides will be given in place of Aristotle only if elected by a sufficient number.

The prescribed general reading is as follows: (1) the *Iliad* of Homer; (2) the *Aeneid* of Virgil; (3) the history of Greek and Latin Literature.

In the assignment of Final Special Honors, consideration will be given to the standing of the candidate in the eight departmental courses elected, in the examinations on the special reading pursued in connection with four of these courses, and in the examination on the general reading.

In addition to the courses listed above, the Department offers the following courses, which are open to all qualified students. However, these courses may be taken by candidates for Final Special Honors in Classics only as free electives.

JUNIOR COURSES

First Term: Theocritus 319, Greek History 305.
Second Term: Plato 320, Roman History 306.

SENIOR COURSES

First Term: Greek Epic Poetry 419, Roman Law 421.
Second Term: Virgil 420, Roman Law 422.

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For graduate courses in Classics, see under the Graduate School.

## VI. DEPARTMENT OF ENGLISH

PROFESSORS HENRY *VAN DYKE, HARPER, *PARROTT, COVINGTON, †SPAETH, OSGOOD (CHAIRMAN), NOYES, *GEROULD, *ROOT, GRIFFIN, *MACDONALD, CROLL, *MILES, *KENNEDY, *HEERMANCE, AND MURCH.

101, 102*a*. Selected English authors, for special study and for general reading. The principles of composition and rhetoric will be derived therefrom. Frequent reports on assigned reading. Freshman required

* Absent.
† Absent first term.

course, both terms, 2 hours a week for A.B., Litt.B., and B.S., freshmen. Professor Croll and preceptors.

101, 102*b*. Public Speaking and Debate. Offered to freshmen who enter the Cliosophic or the American Whig Society as a substitute for 101, 102*a*. Freshman course, both terms, 2 hours a week for A.B., Litt.B., and B.S. freshmen. Professor Covington.

101, 102*c*. English. Two hours a week will be given to the special study and general reading of selected English authors, with frequent reports on assigned reading; the third hour to rhetoric and composition, with special attention to technical writing. Required of C.E. freshmen, both terms, 3 hours a week. Professor Murch.

201, 202. Outline Sketch of English Literature. A survey of English literature from earliest times to the Victorian Age. Sophomore elective, both terms, 3 hours a week. Professor Spaeth and preceptors.

301. Sixteenth Century English Literature: The Renaissance in England. Especial attention will be paid to the development of the drama, lyric poetry, and to literary prose. Junior course, first term, 3 hours a week. Professor Parrott and preceptors.

302. English literature: Shakespeare. A study of some of Shakespeare's representative plays. Junior course, second term, 3 hours a week. Professor Spaeth and preceptors.

303. The Elements of Poetry. The object is to introduce the student to the understanding and enjoyment of poetry as an art. The nature of poetry as distinguished from the other arts; its origin; its kinds; the most important forms and their history. Junior course, first term, 3 hours a week. Professor Croll.

304. The English Language. A study of the general prin-

ciples of linguistics with special application to English. Junior course, second term, 3 hours a week. Professor Griffin.

*401. Eighteenth Century Literature. A study of leading poets and prose writers from Dryden to Burns. Senior course, first term, 3 hours a week. Professor Osgood.

402. Seventeenth Century Literature. Lectures on the poets and prose writers during the age of Milton. Senior course, second term, 3 hours a week. Professor Harper.

*403. English Romanticism. A literary study of the chief writers of the early part of the Nineteenth Century. Senior course, first term, 3 hours a week. Professor Harper and preceptors.

*404. English Literature of the Victorian Period. A study of some of the leading British and American writers of the Victorian period. Senior course, second term, 3 hours a week. Professor Noyes and preceptors.

*405. Elementary Old English. Grammar and Prose Selections. Senior course, first term, 3 hours a week. Prerequisite to English 406. Professor Griffin.

*406. Advanced Old English. The *Beowulf* and minor poems. A thesis will be required. Senior course, second term, 3 hours a week. Professor Griffin.

407, 408. Advanced Composition. Intended for those who desire special training in English composition. [Not given 1918-1919.]

409. (Classics 423.) The Influence of the Classics in English Literature. Reading in Aeschylus, Plato, Aristotle, Theocritus, Bion, Moschus, Horace, Martial; Spenser, Milton, Herrick, Pope, Shelley, Wordsworth, Keats, Tennyson, Swinburne. Senior course, first term, 3 hours a week. Professor Osgood.

* Also listed as a graduate course.

410. Chaucer and his Contemporaries. Lectures on Chaucer, his period, his language, and his contemporaries. One hour a week will be devoted to lectures and two hours a week to preceptorial conferences. Senior course, second term, 3 hours a week. Professor Parrott and preceptors.

411 (303). The Elements of Poetry. The object is to introduce the student to the understanding and enjoyment of poetry as an art. The nature of poetry as distinguished from the other arts; its origin; its kinds; the most important forms and their history. Senior course, first term, 3 hours a week. Professor Croll.

## FINAL SPECIAL HONORS

Juniors and seniors in the Department of English may become candidates for Final Special Honors, in accordance with the general regulations for Final Special Honors. The special regulations are as follows:

A candidate for Final Special Honors in English must take the following courses:

*Junior Year*

First term: 301. English Literature of the Renaissance
303. Chaucer and his Contemporaries

Second term: 302. Shakespeare.
304. History of the English Language.

*Senior Year*

First term: Two courses, one of which must be chosen from courses 405, 407, 409.

Second term: Two courses, one of which must be chosen from courses 406, 408, 410.

Each candidate shall adopt a consistent, definite, and properly limited plan of study beyond the scope of his course.

At the end of senior year each candidate shall pass an

examination based upon all his work in English during junior and senior years.

Each candidate shall follow a prescribed course of reading in extension of the work of each course. At the final comprehensive examination the candidate must present a general knowledge of English history and of the history of the English language and literature.

The special work for Honors shall be chiefly either in literature or in linguistics, as follows:

### LITERATURE

A candidate wishing to specialize in Literature shall select for intensive study during junior and senior years one of the following topics:

1. Old English Literature
2. Middle English Literature
3. English Literature of the Renaissance
4. A Single Period of English Literature since 1642
5. English Literature and Political History
6. English Literature and Philosophy
7. English Literature and French, or German, or Italian Literature
8. English Literature and the Classics
9. Theories of Poetry and Fine Art
10. The Development of a Single Literary Form.

*Note on Topics* 1-4. In connection with any of these topics the candidates shall follow a course of reading illustrating the English philosophy and history of the period, and the origin of its main tendencies.

*Note on Topics* 5-8. As these topics present English literature particularly in its relation to other subjects, a candidate's choice will usually relate itself to his choice of courses outside of the Department.

*Note on Topic* 7. As the relations of English literature to these others vary in importance from period to period, the candidate may include more than one of them

in his plan, or may confine himself to a more intensive study of one of them in a particularly significant period; such as, for example, English Literature and French Literature in the Eighteenth Century; English Literature and Italian Literature in the Sixteenth Century.

LINGUISTICS

A candidate wishing to specialize in Linguistics shall read selected books on the phenomena of language, on the relation of English to kindred languages, and on the elements of style.

His intensive study shall have as its subject the relation of English to one other language, or the language and style of some selected author.

The candidate shall from time to time in each term report progress in his special reading to his preceptor, and shall do such writing in connection with it as his preceptor shall precribe.

A statement of Honors reading will be issued.

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For graduate courses in English, see under the Graduate School.

## VII. DEPARTMENT OF MODERN LANGUAGES

PROFESSORS VREELAND, GAUSS (CHAIRMAN), BUFFUM, COLLINS, HOSKINS, BLAU, PRIEST, MARDEN, *ARMSTRONG, CRITCHLOW, KOREN, *THAYER, STUART, AND BENDER; MR. *CHAPMAN, AND DR. *WALLACE.

### GERMANIC SECTION

101, 102. Beginners' German. Freshman course, both terms, 3 hours a week. Professor Hoskins.

103, 104. Freshman German. Reading, with exercises in

syntax and composition. Freshman course, both terms, 3 hours a week. Prerequisite course: Entrance German A. Prerequisite to course 203, 204. Professors Bender, Hoskins and Blau.

105, 106. Advanced German for Freshmen. Reading of historical, descriptive, and narrative prose, with exercises in composition. Prerequisite: Entrance German B. Both terms, 3 hours a week. Either course 105, 106 or 203, 204 is prerequisite to the German courses of junior and senior years. Professors Bender and Priest.

105M, 106M. Study of German institutions, with practice in the use of the German language. Open to students who have passed German 103 in the summer session. Professor Bender.

201, 202. Beginners' German. Grammar, reading, and composition. Sophomore elective course, both terms, 3 hours a week. Professor Hoskins.

203, 204. German Literature since 1748. Sophomore elective course, both terms, 3 hours a week. Prerequisites: Courses 103, 104 or Entrance B. Either course 203, 204 or 105, 106 is prerequisite to the German course of junior and senior years. Professors Priest and Blau.

205. Military German: Study of German military institutions, and military law, with exercises in the use of the German language. Open to students who have passed German 105, 105M, or 203. Professors Priest and Bender.

301, 301. German Literature from Opitz to Schiller. Lectures and collateral reading. Junior course, both terms, 3 hours a week. Prerequisite: Course 105, 106 or 203, 204. Professors Priest and Hoskins.

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* Absent.

303, 304. Goethe's Life and Works. Lectures and reading. Junior course, both terms, 3 hours a week. Prerequisite: Course 105, 106 and 203, 204. Professor Blau.

401, 402. The Romantic School in Germany and German Literature since Goethe's death. Lectures and reading. Senior course, both terms, 3 hours a week. Prerequisite: Course 105, 106, or 203, 204. Professor Hoskins.

403, 404. Middle High German. Elements of Middle High German grammar. Readings in mediaeval German. Senior course, both terms, 3 hours a week. Prerequisite: Course 105, 106 or 203, 204. Professors Hoskins and Priest. [Not given, 1918-1919.]

ROMANIC SECTION

101, 102. Beginners' French. Grammar, composition, and reading. Freshman course, both terms, 3 hours a week. Professor Koren and Dr. van den Ven.

103, 104. Freshman French. Rapid reading, conversation, and composition. Freshman course, both terms, 3 hours a week. Prerequisite: Entrance French A, or French 101, 102. Prerequisite to French 203, 204. Professors Buffum, Critchlow, and Armstrong.

105, 106. History of France, French customs and institutions, and French literary history. Prerequisite: Entrance French B or Course 103, 104. Freshman course, 3 hours a week. Professors Armstrong, Buffum, Gauss and Stuart.

105M, 106M. Study of French History, Institutions and French Literary History, with practice in the use of the French language. Open to students who have passed French 103 in the summer session. Professors Stuart, Critchlow and Koren.

201, 202. Beginners' French. Grammar, composition, and

reading. Sophomore elective, both terms, 3 hours a week. Professor Koren and Dr. van den Ven.

203, 204. Sophomore French. General introduction to the study of French literature. Sophomore elective, both terms, 3 hours a week. Prerequisite: Course 103, 104 or Entrance French B. Prerequisite to the French courses of junior and senior years. Professors Vreeland and Stuart.

205. Military French. Conducted in French. Open to students who have passed either 105, 105M, or 203. Summer session and first term. Professors Buffum, Gauss, Stuart and Critchlow.

207, 208. Beginners' Spanish. Grammar, composition, and reading of modern Spanish authors. Sophomore course, both terms, 3 hours a week. Prerequisite to Spanish 307, 308. Professors Marden and Critchlow.

301, 302. French. French Classical Literature. Junior course, both terms, 3 hours a week. Prerequisite course: French 203, 204. Professor Collins.

305. Italian. Grammar, composition, and reading, Junior course, first term, 3 hours a week. Prerequisite to Italian 306. Professor Koren.

306. Italian. The *Divina Commedia* of Dante. Junior course, second term, 3 hours a week. Prerequisite course: Italian 305. Prerequisite to Italian 407. Professor Gauss.

307, 308. Spanish. Readings from Spanish and Spanish-American authors, composition, letter-writing, and oral practice. Junior course, both terms, 3 hours a week. Prerequisite: courses 207, 208. Professor Marden.

401, 402. French. The Romantic Movement. Lectures and preceptorial reading. Senior course, both terms,

3 hours a week. Prerequisite course: French 203, 304. Professor Gauss.

403, 404. Old French. A study of the language and literature of France from its origin to the Renaissance. Senior course, both terms, 3 hours a week. Prerequisite course: French 203, 204. Professor Buffum.

405. French Literature of the Eighteenth Century. Senior course, first term, 3 hours a week. [Open also to juniors, 1918-1919.] Prerequisite course: French 203, 204. Professor Stuart.

406. French Literature of the Sixteenth Century. Senior course, second term, 3 hours a week. [Open also to juniors, 1918-1919.] Prerequisite course: French 203, 204. Professor Vreeland.

407. Italian. Authors of the 15th and 16th centuries. Senior course, first term, 3 hours a week. Prerequisite: course 306. Prerequisite to course 408. Professor Koren.

408. Italian. Modern Italian authors. Senior course, second term, 3 hours a week. Prerequisite course: Italian 407. Professor Koren.

409, 410. Spanish. Modern and seventeenth century drama, composition, essays, Spanish-American institutions. Senior course, both terms, 3 hours a week. Prerequisite: courses 307, 308. Professor Marden.

## FINAL SPECIAL HONORS

[NOTE.—Honors Courses in the Department of Modern Languages are discontinued for the year 1918-1919.]

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For graduate courses in Modern Languages, see under the Graduate School.

## COURSES NOT INCLUDED IN ANY OF THE PRECEDING DEPARTMENTS

*401, 402. Sanskrit. Senior course, both terms, 3 hours a week. Professor Robbins.

*407. History of Modern Science. A non-technical course in the development of scientific thought from the time of Copernicus and Galileo to the present. Senior course, first term, 3 hours a week. Professor Spaulding. [Not given, 1918-1919.]

*401. History and Psychology of Education. This course is designed to meet the needs of students intending to teach. Open to all students of psychology as an elective. Senior course, first term, 3 hours a week. Professor McComas. [Not given, 1918-1919.]

* Also listed as a graduate course.

## C. DIVISION OF MATHEMATICS AND SCIENCE

### VIII. DEPARTMENT OF MATHEMATICS

DEAN FINE (CHAIRMAN), PROFESSORS *THOMPSON, EISENHART, *VEBLEN, GILLESPIE, *BOUTROUX, MAC INNES, AND *WEDDERBURN; DR. *ALEXANDER, AND MR. HAMMOND.

101. Plane Trigonometry. Hun and MacInnes: *Elements of Plane and Spherical Trigonometry.* Required of all freshmen who have not taken the subject for entrance. First term 2 hours a week. Professor Gillespie and Mr. Hammond.

103, 104, 104s. Alegbra, Coördinate Geometry, Calculus, and Spherical Trigonometry. Required of all C.E. Freshmen. First and second terms and summer session, 4 hours a week. Professor MacInnes.

109, 110. Algebra, Coördinate Geometry and Calculus required of all A.B., Litt.B.-B.S. freshmen. Both terms, 4 hours a week. Professors Fine, Eisenhart, Gillespie and MacInnes, and Mr. Hammond.

112s. Analytical Mechanics. Statics. Analytical and graphical method. Required of all C.E. Freshmen. Summer session, 3 hours a week. Professor MacInnes.

201, 202. Calculus. Elective course, open to all sophomores who have not taken 109, 110. Both terms, 3 hours a week. Prerequisite to the Departments of Mathematics and Physics. Professors Fine, Eisenhart and Gillespie.

203. Calculus and Elementary Differential Equations. Required of all C.E. sophomores, first term, 4 hours a week. Professor MacInnes.

* Absent.

205, 206. Analytical Mechanics. Kinetics. Required of all C.E. sophomores, both terms, 3 hours a week. Professor MacInnes.

207, 208. Calculus and Elementary Differential Equations. Open to all sophomores who have taken 109, 110. Professors Fine, Eisenhart and Gillespie.

301, 302. Algebra. Both terms, 3 hours a week. Professor Fine. [Not given, 1918-1919.]

305, 306. Coördinate Geometry. Second course. Junior course, both terms, 3 hours a week. Professor Thompson. [Not given, 1918-1919.]

307, 308. Analysis. Differential Equations and Advanced Calculus. Junior course, both terms, 3 hours a week. Professor Fine.

309, 310. Analytical Mechanics. Introductory course. Junior course, both terms, 3 hours a week. Professor Gillespie.

311, 312. Ordnance and Gunnery. Introductory course. Junior course, both terms, 3 hours a week. Professor Eisenhart.

*403, 404. Differential Geometry. Prerequisite: Geometry 305, 306. Senior course, both terms, 3 hours a week. Professor Eisenhart. [Not given, 1918-1919.]

*405, 406. Algebra. Theory of equations. Linear dependence. Matrices. Senior course, both terms, 3 hours a week. Professor Fine. [Not given, 1918-1919.]

*407, 408. Projective Geometry. Senior course, both terms, 3 hours a week. Professor Eisenhart. [Not given, 1918-1919.]

*409, 410. Analysis. Theory of functions of a complex variable. Senior course, both terms, 3 hours a week. Professor Fine. [Not given, 1918-1919.]

* Also listed as a graduate course.

A departmental student who is not a candidate for Final Special Honors in Mathematics shall take two of the above mentioned junior courses in his junior year, and in his senior year two courses of which one shall ordinarily be the third junior course and the other either Physics 403, 404, or one of the above mentioned senior courses.

FINAL SPECIAL HONORS

A candidate for Final Special Honors in Mathematics shall take two of the junior courses in his junior year, and in his senior year any two of the remaining three in the list of courses above given for which he is qualified. He shall also be required in connection with the courses which he takes to do work in addition to that required of non-Honors students.

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For regulations regarding Final Special Honors in Mathematics and Physics, see page 177.

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For graduate courses in Mathematics, see under the Graduate School.

## IX. DEPARTMENT OF PHYSICS

DEAN MAGIE (CHAIRMAN), PROFESSOR LOOMIS, DEAN MCCLENAHAN, PROFESSORS *TROWBRIDGE, *ADAMS, P. E. *ROBINSON, *COOKE, *NORTHRUP AND *COMPTON.

101, 102. General Physics. General course in physics, including laboratory work. Freshman course, for all C.E. freshmen, and for Litt.B. and B.S. freshmen who do not take the alternative course in General Chemistry (Chemistry 103, 104). Both terms, 4 hours a week. For this course a fee of $5 is charged and a deposit on apparatus of $5 is required. Professor McClenahan.

103, 104. General Physics. Advanced Freshman Course, for all Freshmen admitted by the plan of exceptional admission and for such other freshmen as passed Physics for entrance with a satisfactory school record in laboratory work and with a mark of 75 or over on the entrance examination. Both terms, 3 hours a week. Professor W. F. Magie.

201, 202. General Physics. General course in physics, including laboratory work. Sophomore course, for A.B. sophomores who do not take the alternative course in General Chemistry (Chemistry 201, 202) and for Litt.B. and B.S. sophomores who take General Physics. Both terms, 4 hours a week. For this course a fee of $5 is charged, and a deposit on apparatus of $5 is required. Professor McClenahan.

203. Heat; 204, Light. Sophomore course, elective for Litt.B. and B.S. sophomores who have taken General Physics in freshman year. Both terms, 3 hours a week. Professor W. F. Magie.

205, 206. Heat, and Electricity and Magnetism. Sophomore course, required of C.E. sophomores. Both terms, 3 hours a week. Professor Loomis.

301, 302. Experimental Physics. Lectures and laboratory work. Junior course, both terms, 3 hours a week. Professor Loomis.

309, 310. (Mathematics 309, 310.) Analytical Mechanics. Introductory course. Junior course, both terms, 3 hours a week. Professor Eisenhart.

401, 402. Theoretical Physics. Physical Optics. Senior course, both terms, 3 hours a week. Prerequisite course: Mathematics, 201, 202. Professor P. E. Robinson.

403, 404. Theoretical Physics: Electricity and Magnetism. Senior course, both terms, 3 hours a week. Pre-

requisite course: Mathematics 201, 202. Professor Northrup. [Not given, 1918-1919.]

## HONORS COURSES IN PHYSICS†

The Department of Physics offers, in conjunction with the Department of Mathematics, the following courses, which are open to candidates for Final Special Honors in Mathematics and Physics:

309, 310 C. Analytical Mechanics. Junior course, both terms, 3 hours a week. Professor Eisenhart.

311, 312 D. Physical Optics. Junior course, both terms, 3 hours a week. Professor Trowbridge. [Not given, 1918-1919.]

313, 314 E. Experimental Physics. Experiments in mechanics, properties of matter, sound, heat, and light. Junior course, both terms, 3 hours a week. Professor P. E. Robinson. [Not given, 1918-1919.]

*411, 412, C. Theory of Electricity and Magnetism. Senior course, both terms, 3 hours a week. Professor Adams. [Not given, 1918-1919.]

413, 414, D. Theoretical Physics.

*a*. Thermodynamics.

*b*. The Electron Theory. Senior course, both terms, 3 hours a week. Professors W. F. Magie and Compton. [Course *b* not given, 1918-1919.]

*415, 416, E. Experimental Physics. Experiments in electricity and magnetism. Senior course, both terms, 3 hours a week. Professor Northrup. [Not given, 1918-1919.]

† Honors courses are not given 1918-1919. An arrangement will be made for honors candidates.

* Also listed as a graduate course.

## FINAL SPECIAL HONORS IN MATHEMATICS AND PHYSICS

Candidates for honors enter the Honors Courses at the beginning of junior year if they have fulfilled the conditions of entrance prescribed in the general regulations for Final Special Honors.

The Honors Courses in Mathematics and Physics are as follows:

### *Junior Year*

A. Geometry 305, 306
B. Analysis 307, 308
C. Applied Mathematics (Mechanics) 309, 310
D. Theoretical Physics 311, 312
E. Experimental Physics 313, 314.

A candidate for Honors in Mathematics and Physics selects three of these courses, of which one must be the course C, unless a different choice is permitted by the Departments.

### *Senior Year*

a. Differential Geometry 403, 404
b. Analysis 409, 410.
c. Applied Mathematics (Electricity and Magnetism) 411, 412
d. Theoretical Physics 413, 414
e. Experimental Physics 415, 416
f. Celestial Mechanics 401, 402.
g. Algebra 405, 406

Courses A, B, C, D, E of junior year are prerequisite to the courses a, b, c, d, e of senior year respectively. A candidate for Honors in Mathematics and Physics takes three courses selected from those of the courses a, b, c, d, e, f, g, of which the prerequisites have previously been taken or

from those of the courses A, B, C, D, E, which have not been taken.

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For graduate courses in Physics, see under the Graduate School.

## X. DEPARTMENT OF CHEMISTRY

PROFESSORS MC CAY (CHAIRMAN), NEHER, HULETT, FOSTER, MENZIES, SMITH, AND VAN NEST; MR FLEECE, MR. CALDWELL, AND MR. CUDE.

101, 102. General Inorganic Chemistry. Experimental lectures on the elements and their compounds, supplemented by laboratory work. Two lectures, one recitation, and one laboratory exercise of 3 hours each week. Required of C.E. freshmen, both terms, 4 hours a week. Professor Van Nest.

†103, 104. General Inorganic Chemistry. Experimental lectures on the elements and their compounds, supplemented by laboratory work. Two lectures, one recitation, and one laboratory exercise of 3 hours each week. The laboratory work is in part introductory to qualitative analysis. Freshman course, elective for Litt.B. and B.S., alternative to Physics 101, 102. Both terms, 4 hours a week. Professors Foster and Menzies, assisted by Mr. Fleece and Mr. Cude.

†105, 106. Advanced General Inorganic Chemistry for Freshmen. Experimental lectures and recitations on the elements and their compounds and on the fundamental laws and theories of Chemistry, supplemented by laboratory work. Two lectures, one recitation, and one laboratory exercie of 3 hours each week. The laboratory work is in part introductory to qualitative analysis. Freshman course, elective for Litt.B. and B.S., alternative to Physics 101, 102. Both terms, 4 hours

a week. This course is open, subject to the approval of the instructor in charge, to those students who have passed in Chemistry for admission, and is required of those electing General Inorganic Chemistry, who have passed Chemistry for admission with a grade of 75 per cent. or over. Professor Foster, assisted by Mr. Fleece.

†201, 202. General Inorganic Chemistry. Experimental lectures on the elements and their compounds, supplemented by laboratory work. Two lectures, one recitation, and one laboratory exercise of 3 hours each week. The laboratory work is in part introductory to qualitative analysis. Sophomore elective, both terms, 4 hours a week. Professors Foster and Menzies, assisted by Mr. Fleece and Mr. Cude.

301. Qualitative Analysis. The course involves about 9 hours of laboratory work, besides a classroom exercise, each week. Junior course, first term, 4 hours a week. This course may also be taken as a sophomore elective for Litt.B. and B.S. students who have taken Chemistry 103, 104. Prerequisite course: General Chemistry. Required in the Department of Chemistry. Professor Smith.

302. Quantitative Analysis, Part I. The theory and practice of typical gravimetric and volumetric analyses, chiefly the analyses of simple salts. This course involves about nine hours of laboratory work, in addition to one or more class exercises, each week. Junior course, second term, 3 hours a week. Prerequisite courses: General Inorganic Chemistry and Qualitative Analysis. Prerequisite to the later courses in Quantitative Analysis. Required in the Depart-

† Either course 103, 104 or 105, 106 or 201, 202 is prerequisite to all later courses in Chemistry and Mineralogy and to the Departments of Chemistry Biology, and Geology.

ment of Chemistry. Professor McCay, assisted by Mr. Cude.

*For Honors:* Reading, reports, and laboratory work.

303. Organic Chemistry. Brief general course. *The special course in Organic Chemistry hitherto given for the benefit of students in the Department of Biology has been temporarily suspended. See under 306 and 403 a statement of the present opportunities and requirements.*

304. Qualitative Analysis. Lectures, recitations, and laboratory work. Junior course, first term, 4 hours a week. Required in the Department of Biology and *not open to students of other departments.* Chemistry 103, 104 or 201, 202 is prerequisite to this course. The course may be taken also by B.S. sophomores who have had Chemistry 103, 104 and who intend entering the Department of Biology, but only on recommendation of that Department. Professor Van Nest.

305. Physical Chemistry, Part I. Two lectures and one laboratory period. Molecular theory and molecular weight determinations by standard methods. Junior course, first term, 3 hours a week. Required in the Department of Chemistry. Professor Hulett.

*For Honors:* Application of the molecular weight methods to special problems and a study of exceptions to the general laws.

306. Organic Chemistry, Part I. Introductory course, devoted mainly to the study of the simpler saturated and unsaturated open chain hydrocarbons, alcohols, aldehydes, ketones, acids, amines, cyanides, etc., together with their more important immediate derivatives and homologues. Lectures, recitations, and

laboratory work. Junior course, second term, 4 hours a week. Required in the Departments of Chemistry and Biology. Open to qualified Sophomores who intend to enter the Department of Biology. Open also *on a 3-hour basis without laboratory work* to other qualified Sophomores. Prerequisites: General Inorganic Chemistry and Qualitative Analysis or Physical Chemistry I. Professor Neher.

*For Honors:* Special reading, conferences, and laboratory work.

401. Quantitative Analysis, Part II. Continuation of Part I, including salts, minerals, and alloys. This course involves about nine hours of laboratory work, in addition to one or more class exercises, each week. Senior course, first term, 3 hours a week. Prerequisite courses: General Inorganic Chemistry, Qualitative Analysis, Quantitative Analysis I. Prerequisite to Quantitative Analysis III. Required in the Department of Chemistry. Professor McCay, assisted by Mr. Cude.

*For Honors*: Reading, reports, and laboratory work.

*402. Quantitative Analysis, Part III. Systematic volumetric analysis. This course involves about nine hours of laboratory work, in addition to one or more class exercises, each week. Senior course, second term, 3 hours a week. Prerequisite courses: General Inorganic Chemistry, Qualitative Analysis, Quantitative Analysis I and II. Professor McCay, assisted by Mr. Cude.

*For Honors:* Reading, reports and laboratory work.

403. Organic Chemistry, Part II. Continuation of Part I,

* Also listed as a graduate course.

including aliphatic compounds of multiple and mixed function, especially the hydroxy-acids and the dibasic acids with their derivatives, and an introduction to stereochemistry; the carbohydrates and the uric acid group in outline; the simpler cyclic compounds, benzene and its derivatives, aromatic nitrogen compounds, phenols, quinones, dyes, etc. Lectures, recitations, and laboratory work. Senior course, first term, 3 hours a week. Required in the Department of Chemistry, and of Juniors in the Department of Biology who have already taken Organic Chemistry I (306). For students who have taken Organic Chemistry I (306) without laboratory work, Part II (403) is given on a 4-hour basis with double laboratory work, involving two afternoons per week. Professor Neher.

*For Honors:* Special reading, conferences, reports, and laboratory work.

*404. Organic Chemistry, Part III. Devoted to a more detailed study of special subjects and theories, malonic ester and acetoacetic ester; carbohydrates; amino-acids and polypeptides; urea, ureides, and purines; benzene theory; dyes and color theory, etc. Lectures, recitations, and laboratory work. Senior course, second term, 3 hours a week. Prerequisites: Parts I and II or equivalents. Professor Neher.

*For Honors:* Special reading, conferences, reports, and laboratory work.

405. Physical Chemistry, Part II. Two lectures and one laboratory period. Senior course, first term, 3 hours a week. Required in the Department of Chemistry. Professor Hulett.

*For Honors:* Application of solubility and conduc-

* Also listed as a graduate course.

tivity to analytic problems. Reading on the theories of solutions.

*406. Physical Chemistry, Part III. One lecture and two laboratory periods. Senior course, second term, 3 hours a week. Professor Hulett.

*For Honors:* Reading on the phase rule and experimental application to practical problems.

407. Rise and Development of Chemical Theories. Lectures and written recitations. Senior elective course, first term, 3 hours a week. Prerequisite course: General Inorganic Chemistry. Professor McCay.

*410. Advanced Inorganic Chemistry. Crystal form and habit, isomorphism, X-rays and crystal structure, salt hydrates and their equilibrium conditions, double salts and the phase rule, cooling curves, solidification of molten masses, the thermal equilibrium diagram, aluminothermy, colloids, inorganic isomerism, the cobaltammines, the minor elements, and other topics will receive introductory treatment. This course must be preceded or accompanied by course 302. Senior course, second term, four hours a week. Required in the Department of Chemistry. Professor Menzies.

*For Honors:* Special reading, conferences, and laboratory work.

## FINAL SPECIAL HONORS

Juniors and seniors in the Department of Chemistry may become candidates for Final Special Honors, in accordance with the general regulations for Final Special Honors.

Candidates for Final Special Honors in Chemistry shall take two courses in Chemistry throughout junior and senior years in conformity to the plan outlined below.

In courses which are mainly of an introductory character,

* Also listed as a graduate course.

such as the first courses in qualitative and quantitative analysis, organic chemistry and physical chemistry, Honors students will be required to do additional reading, or additional laboratory work, or both. They will meet in special divisions for recitations and conferences and will be given special examinations upon the work of the courses. In the more advanced courses, the work of Honors students will be further distinguished in subject matter as well as in quality and quantity, and, when necessary or advisable, entirely separate courses will be arranged for the accommodation of Honors men.

In place of the regular term examinations at the end of senior year, comprehensive final examinations upon the Honors work of both junior and senior years will be held.

*Junior Year*

Either 301. Qualitative Analysis and 302. Quantitative Analysis I
305. Physical Chemistry I and 306. Organic Chemistry I
or 401. Quantitative Analysis II and 402. Quantitative Analysis III
305. Physical Chemistry I and 306. Organic Chemistry I

*Senior Year*

In the first term any two of
401. Quantitative Analysis II
403. Organic Chemistry II
405. Physical Chemistry II
In the second term
410. Advanced Inorganic Chemistry, together with one of
402. Quantitative Analysis III

404. Organic Chemistry III
406. Physical Chemistry III

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For graduate courses in Chemistry, see under the Graduate School.

## XI. DEPARTMENT OF GEOLOGY

PROFESSORS SCOTT (CHAIRMAN), PHILLIPS, SMYTH, *FARR, *VAN INGEN, AND SINCLAIR; MR. *HOWELL.

201, 202. Geology. Beginners' course, covering the subject in outline. Sophomore course, both terms, 3 hours a week. First term, Physical Geology; second term, Outline of the Geological History of the Earth. Prerequisite to courses 301-302, 401, 405. Lecturer, Professor Scott. Preceptors, Professors Farr and Sinclair, and Mr. Howell.

301, 302. Structural Geology. Essentially a laboratory and field course. Field work required of all students. Junior course, both terms, 3 laboratory periods of 2 hours each per week. Prerequisite course: Geology 201, 202. Prerequisite to Geology 403 and 405. Professor Sinclair.

*For Honors:* Additional field work with written reports thereon.

303. Descriptive Mineralogy. Lectures and recitations, with laboratory practice. Junior course, first term, 3 hours a week. Prerequisite course: General Chemistry. Prerequisite to courses 403, 407, 408. Professor Phillips.

*For Honors:* Extra reading and the study of a special collection of minerals.

304. Determinative Mineralogy. Lectures and laboratory work. Junior course, second term, 3 hours a week. Professor Phillips.

* Absent.

306. Introduction to Palaeontology. The scope, problems, methods, and results of the study of fossil organisms. Junior course, second term, 3 hours a week. Lectures and conferences. Prerequisite courses: General Geology or Biology. Professor van Ingen and Mr. Howell.

*For Honors:* Laboratory work on special collections. Reading of special papers.

[Note: Departmental students must take either 304 or 306; and may take the other as a free elective.]

*401, *402. Historical Geology. The geological history of the earth from its origin to recent times. Lectures, conferences, and field work. Senior course, both terms, 3 hours a week. Prerequisite course: Geology 201, 202. Professors Scott and van Ingen.

*For Honors:* Extra reading, study of certain Geologic Folios, field trips during each term, and study of collection of index fossils of the geological formations.

*403. Structural and Dynamic Geology. A study of the composition and structural features of the earth's crust. Lectures, laboratory and field work. Senior course, first term, 3 hours a week. Prerequisite courses: Geology 301, 302 and Mineralogy 303. Professor Smyth.

*404. Economic Geology. The principles controlling the circulation of mineral matter in the earth's crust, and its concentration into workable deposits. Lectures and laboratory work. Prerequisite course: Geology 403. Senior course, second term, 3 hours a week. Professor Smyth.

*For Honors in* 403, 404, Dynamic and Economic Geology: Reading in Van Hise: *Metamorphism,* and

* Also listed as a graduate course.

other monographs of the U. S. Geol. Survey; Harker: *Natural History of Igneous Rocks;* Posepny and others: *Genesis of Ore-Deposits;* Clark: *Data of Geochemistry;* Elsden: *Principles of Chemical Geology;* Lindgren: *Mineral Deposits.* Study of Geologic Folios.

*405, 406. Practical Geology. A course designed to give instruction in the exact methods of securing the information upon which the body of geological science is based. Lectures, laboratory, library and field work. Senior course, both terms, 3 hours a week. Prerequisites: Geology 201-202, 301-302 or Palaeontology 306. Professor van Ingen and Mr. Howell.

*For Honors,* students will be required to give special attention to two instead of one of the phases of the geological investigation of the region studied.

*407. Crystallographic Mineralogy. Lectures and laboratory work on crystallography and the optical properties of crystals. Senior course, first term, 3 hours a week. Prerequisite course: Mineralogy 303. Professor Phillips.

*For Honors:* Extra reading to be designated, and additional drawing of crystal forms with cutting of crystal models.

*408. Optical Mineralogy. Lectures and laboratory work on the optical properties of the rock-forming minerals, with instruction in the general practice of petrographic methods. Senior course, second term, 3 hours a week. Prerequisite course: Mineralogy 407. Professor Phillips.

*For Honors:* Two hours additional laboratory work on goniometer and in grinding mineral and rock sections. Additional reading.

* Also listed as a graduate course.

## FINAL SPECIAL HONORS

Each candidate shall take two departmental courses of junior year and at least three of the four departmental courses of senior year. In the first term of junior year he must take 301 and 303. In the second term he must take 302 and either 304 or 306, and he may elect both, taking the third course as a free elective. In the latter event he will be held for honors work in 302 and that one of the other two courses to be indicated by him.

In senior year, 401-402 and 403-404 and a third course will be taken, and if a fourth course in the Department be taken as a free elective and so indicated by the candidate, honors work will not be required in it.

In addition to the extra work mentioned under the individual courses he may elect, each candidate will be expected to read during his two years the works mentioned below. Those marked with an asterisk are recommended for reading during junior year.

*Lyell: *Principles of Geology,* vol. I, except chapters II, III, and IV; *Willis: *Mechanics of Appalachian Structure,* (13th Ann. Rept. U. S. Geological Survey); *Geikie: *Founders of Geology;* *Davis: *Geographical Essays;* chapters 3, 12-26; *Bernard: *Principles of Palaeontology,* translation in 48th Report Regents University State of New York, vol. II, p. 127-215; *Palaeontological Society Conference Papers on the Aspects of Palaeontology;* Iddings: *Volcanism;* Bain: *Types of Ore Deposits;* Yale University: *Problems of American Geology;* Wright, W. B.: *The Quaternary Ice Age.*

## GEOLOGY CLUB

The Geology Club, for the discussion of investigations and for the review of current literature, meets weekly. Active participation is required of all graduate students in Geology, and of candidates for Final Special Honors in Geology.

* Also listed as a graduate course.

## SUMMER COURSE IN FIELD GEOLOGY

Juniors who contemplate electing the major part of their senior studies in the Departemnt of Geology are strongly advised to take part in the optional field work which will be offered during a portion of each summer vacation.

Graduate students are advised to join a field party during the summer previous to their first year of residence.

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For graduate courses in Geology, see under the Graduate School.

## XII. DEPARTMENT OF BIOLOGY

PROFESSORS SCOTT, RANKIN, MC CLURE, CONKLIN (CHAIRMAN), DAHLGREN, SHULL, *FARR, HARVEY, AND CARY; DR. *PAYTON, DR. MAYOR; MR. *SILVESTER.

201, 202. General Biology. Lectures, laboratory work, and recitations. An introduction to the fundamental properties of living things, their functions, structures, classification, habits, life-histories, and evolution. Sophomore elective for students in all courses, both terms, 3 hours a week. Must be preceded or accompanied by General Chemistry 103, 104, or its equivalent. Prerequisite to all the subsequent courses in Biology, except Botany 303, 304. Professors Conklin and Cary.

303, 304. Botany. Practical work in the field and laboratory, lectures and recitations. An introduction to the general principles of plant life. Junior course, both terms, 3 hours a week; 4 hours a week in the Medical Preparatory Course. Professor Rankin.

305. Comparative Osteology. Professor Farr. [Not given, 1918-1919.]

* Absent.

305*a*, 306. Invertebrate Zoology. Lectures and laboratory work on selected phyla of invertebrates. Junior course, both terms, 3 hours a week. Professor Cary.

308. Parasitology. A study of the structures, relationships and life-histories of animal parasites and their rôle in the causation and transmission of diseases of man and the higher animals. In the laboratory especial emphasis will be given to the technique of diagnosis. Lectures, recitations and laboratory work. Second term, 4 hours a week. Professor Cary.

*401. Comparative Anatomy of Vertebrates. Lecture and laboratory course. Lectures on the comparative anatomy of the organ systems of vertebrates, and dissection of the dog-fish and a mammal. Senior course, first term, 3 hours a week. Professor McClure.

*402. Vertebrate Embryology. Lecture and laboratory course. A comparative study of the development of vertebrates. Senior course, second term, 3 hours a week. Professor McClure.

*403. Histology. A study of protoplasm, cells, and tissues as they underlie animal and vegetable life; the histology of the fundamental tissues of support, energy production, sensation and conduction. Senior course, first term, 3 hours a week. Professor Dahlgren.

*404. Advanced Histology. The comparative histology of the tissues of reproduction, assimilation, circulation, excretion and secretion. Practice in microscopical technic. Thesis. Senior course, second term, 3 hours a week. Continuation of Histology 403. Professor Dahlgren.

*406. Vertebrate Palaeontology. Lectures and laboratory work on fossil vertebrates. Senior course, second term, 3 hours a week. Professor Scott.

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* Also listed as a graduate course.

*407, *408. General Physiology. Lectures and laboratory work. An introduction to the phenomena exhibited by living matter. Senior course, second term, 6 hours a week. Professor Harvey.

*409, 410. Genetics. Lectures, recitations, and laboratory work. Variation and heredity in plants and animals, and the application of the principles of genetics to the improvement of plants, animals, and man. Laboratory work will consist largely of actual research on simple problems. Theses will be expected of each student. Senior course, both terms, 3 hours a week. Professor Shull and Mr. Kelly.

411, 412. Sanitation. Either of the following courses may be taken without the other:

411. Chemical Technique of Sanitation. A course intended for the preparation of laboratory and field assistants in all branches of the Medical and Sanitary Service of the Army and Navy. Lectures and laboratory work upon routine tests of urine, blood and secretions, chemical examination of water, detection of food adulteration and poisons, preparation and use of antitoxins and vaccines, biochemical and general bacteriological technique. The principles of Biological Chemistry will be taken up. Lectures and laboratory work. First term, 3 hours a week. Professor Harvey.

412. Biological Technique of Sanitation. Lectures, recitations and laboratory work in the identification and cultural peculiarities of bacteria, pathogenic protozoa and lower fungi. Microscopical examination of drinking water, foods, sputum, feces, urine, blood, etc. Biological surveys for the location and elimination of malarial mosquitoes, malaria carriers and

* Also listed as a graduate course.

typhoid carrying flies. Study and practical work in fixation, section-cutting, mounting and staining of plant and animal tissues together with the special methods used in neurology. Lectures and laboratory work, second term; 3 hours a week. Professor Dahlgren.

## FINAL SPECIAL HONORS

Juniors and seniors in the Department of Biology may become candidates for Final Special Honors, in accordance with the general regulations for Final Special Honors.

1. Candidates for Final Special Honors in Biology must take the course in General Biology (201, 202) either in their sophomore or junior year.

2. In junior year they must take:

Advanced General Biology (301); 3 hours a week, with reading and laboratory work, 1st term.

Invertebrate Zoölogy (305 *a*, 306); with 3 hours a week supplementary reading and laboratory work, both terms.

Botany (303, 304); with 3 hours a week supplementary reading and laboratory work, both terms.

3. In senior year they must take two of the following courses:

Comparative Anatomy (401); with 3 hours a week supplementary reading and laboratory work, 1st term. Vertebrate Embryology (402); with 3 hours a week supplementary reading and laboratory work, 2nd term.

General Physiology (407, 408); with 3 hours a week supplementary reading and laboratory work, both terms.

Histology (403, 404); with 3 hours a week supplementary reading and laboratory work, both terms.

Genetics (409, 410); with 3 hours a week supplementary reading and laboratory work, both terms.

4. In place of the regular term examinations at the end of senior year, candidates for Final Special Honors in Biology shall take comprehensive examinations covering the Honors work of both junior and senior years.
5. In addition to the supplementary work in connection with each of the courses named, candidates for Final Special Honors in Biology are expected to read the following works before the close of senior year and to pass an oral examination on them:

Beddard, *Geographical Distribution;* Darwin, *Origin of Species;* Ganong, *The Living Plant;* Huxley, *Man's Place in Nature;* Kellogg, *Darwinism Today;* Locy, *Biology and its Makers;* Mendel, *Experiments in Plant Hybridization;* Wallace, *Malay Archipelago;* Walter, *Genetics;* Weismann, *The Germ Plasm.*

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For graduate courses in Biology, see under the Graduate School.

## XIII. DEPARTMENT OF ASTRONOMY

PROFESSORS †RUSSELL AND DUGAN

301. Astronomy. Elementary Astronomy. Mainly descriptive. Junior course, first term, 3 hours a week. Professor Dugan.
302. Astronomy. Stellar Astronomy. Junior course, second term, 3 hours a week. Professor Russell. [Not given, 1918-1919.]

*401, 402*f*. Astronomy. Honors Course in Celestial Mechanics. Professor Russell. [Not given, 1918-1919.]

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* Also listed as a graduate course.
† Absent.

404. Astronomy. Practical Astronomy. The principal methods and instruments of astronomical observation. Junior and senior course, second term, 3 hours a week. Prerequisite course, Astronomy 301. Professor Dugan.

## FINAL SPECIAL HONORS

Candidates for Final Special Honors in Astronomy are required to take courses 301, 302, 401, 402, 403, 404.

In junior year, they shall also take one course in each term in some subject cognate to that of their department. This course will be assigned in each individual case by the department, after conference with the student.

The additional work planned for the two years for such candidates is as follows:

### *Junior Year*

Study of the heavens with the naked eye. Identification of the stars, planets and other heavenly bodies, and study of their motions, both by observation and with the aid of ephemerides. Study of astronomical photographs of the moon and stars.

### *Senior Year*

Telescopic observation of the heavenly bodies. Study of special problems in Practical Astronomy. Readings on selected topics in current astronomical literature.

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For graduate courses in Astronomy, see under the Graduate School.

## XIV. DEPARTMENT OF HYGIENE AND PHYSICAL EDUCATION

PROFESSORS *RAYCROFT, LUEHRING (ACTING CHAIRMAN), *TOOKER; MR. SULLIVAN.

The aim of the work in this Department is to promote the general health and physical efficiency of the students, and to stimulate the formation of habits of rational exercise and healthy living that will be continued after graduation. During the period of the war this Department has been entrusted with the physical training activities of the Military and Naval units of the University. Every effort is being made, therefore, to enable all students to fit themselves not only as valuable members of our fighting forces but also as far as possible to become leaders in military and naval physical training activities. All members of the Military and Naval Training Units, and all freshmen are required to take regular work as indicated below.

Personal Hygiene. Lectures and recitations. A discussion of the fundamentals of health and physical efficiency; the influence of diet, exercise, bathing and sleep; the effects of personal habits; the use of alcohol and tobacco; and a study of the more common infectious diseases—their nature, causes, methods of transmission and prevention. The lectures are illustrated. Freshman course, both terms, 1 hour a week. Professors Raycroft, Luehring, and Tooker. [Not given, 1918-1919.]

Physical Examinations. Each student is given a careful physical examination. The Department has recently revised its physical examinations so as to include all the leading features of value in determining the student's fitness for any of the various arms of government war service. Students with organic weaknesses or correctible defects are given special atten-

tion in the form of frequent reexaminations and modified programs in order to improve their physical powers.

Graded Exercises. The work consists of a variety of games and exercises conducted under the supervision of the Department. It is graded to meet the needs and ability of those in the classes, and is conducted out of doors whenever possible. Courses in calisthenics, bayonet drills, rifle exercises, wall scaling, and military games are given for the Military and Naval Units. A special course will also be given to students desiring to qualify as instructors in military and naval physical training activities. Every freshman and every member of the Military and Naval Training Units will be required to pass a test in swimming and life-saving unless excused by the Department. Classes in swimming and life-saving and methods of resuscitation will be conducted and regular opportunities afforded for passing required tests. Required of all members of the Military and Naval Training Units, and of all freshmen, both terms, 3 hours a week. Professor Luehring and Mr. Sullivan.

## COURSES NOT INCLUDED IN ANY OF THE PRECEDING DEPARTMENTS

Graphics 202 *a*. Elementary Drafting. General course for beginners. Elective in sophomore and higher years. Second term, three exercises a week. Professor Willson.

Graphics 202 *b*. Descriptive Geometry. The fundamental problems of the point, line and plane, with applications to developable warped and double-curved surfaces. Practically applied in the solution of problems on the drawing-board and by the construction of

models. Elective in sophomore and higher years. Second term, two three-hour periods (afternoons) a week. Professor Willson.

Graphics 202 *c*. Stereotomy. Applications of descriptive geometry to problems in stone cutting. Taken with 202 *b* as an alternative to 202 *a* when the equivalent of the latter has already been taken. Elective in sophomore and higher years, second term, one exercise a week. Professor Willson. [Not given, 1918-1919.]

Surveying 302. A general outline of methods of surveying and their uses. Raymond: *Surveying*. Junior course, second term, 3 hours a week. Professor Harris.

Heat Power Engineering (Civil Engineering 401, 402). General relation of the factors of energy and power considered analytically and graphically; gas and vapor energy cycles; power, efficiency and performance of steam engines, turbines, boilers and auxiliary apparatus; fuels and combustion. Hirschfeld and Barnard; *Heat Power Engineering*. Laboratory work consisting of tests of steam engines, boilers, injectors, blowers and gas engines, is taken up in the second term, and a complete inspection of the University Power Plant is made. Both terms, 3 hours a week. Professor Dirks, assisted by Mr. Condit in the laboratory.

Physical Geography 302. Morphology of the continents. Junior course, second term, 3 hours a week. Professor Libbey. [Not given, 1918-1919.]

## *DEPARTMENT OF CIVIL ENGINEERING

PROFESSORS CONSTANT (CHAIRMAN), WILLSON, SMITH, HARRIS, F. F. THOMPSON, BEGGS, AND DIRKS; MR. †MAC MILLAN.

### THE FIRST YEAR.

English 101, 102 *c*. Two hours a week, reading of selected English authors; one hour to rhetoric and composition with special attention to technical writing. Both terms, 3 hours a week. Professor Murch.

Physics 101, 102. General Physics. General course, including lectures, recitations, and laboratory work. Both terms, 4 hours a week. For this course a fee of $5 is charged, and a deposit on apparatus of $5 is required. Professor McClenahan and others.

Mathematics 109, 110, 111. Algebra, Coördinate Geometry and Calculus. Both terms, 4 hours a week and summer session, 4 hours a week. Professors MacInnes and Gillespie.

Analytical Mechanics 103. Statics: Equilibrium of forces, stresses in frames, centers of gravity, moments of inertia. Summer term, 4 hours a week. Professor Mac Innes.

Chemistry 101, 102. General Inorganic Chemistry. Experimental lectures on the elements and their compounds, supplemented by laboratory work. Two lectures, one recitation, and one laboratory exercise of 3 hours each week. Both terms, 4 hours a week. Professor Van Nest and others.

Engineering Drawing, 102, 103. Lettering, line work, orthographic and isometric projections, freehand dimensional sketching from objects, assembly and working drawings. Second term, one-half credit a week; sum-

* The following courses with their sequence are in general those for the two year intensive course, displayed by the program of study prescribed by the Committee on Education of the War Department (pages 137-139).

† Absent.

mer session, 4 credits a week, of 3 hours each. Professor Dirks.

Geodesy 101, 102. Land surveying. Leveling. Elements of topography. Lectures, recitations and office work. Both terms, 3 hours a week. Professor Harris.

Goedesy, 103. Field practice. Summer session, 4 credits a week. Professor Beggs and others.

THE SECOND YEAR

Physics 205, 206. Heat, and Electricity and Magnetism. Lectures based on experimental demonstrations. Both terms, 3 hours a week. Professor Loomis.

Mathematics 203. Calculus. First term, 4 hours a week. Professor Mac Innes.

Analytical Mechanics 205, 206. Statics; equilibrium of forces, stresses in frames, centers of gravity, moments of inertia. Kinetics; of the particle and rigid body, energy and work, friction, impact. Both terms, 3 hours a week. Professor MacInnes.

Graphics 202, 203. Descriptive geometry of the point, line, plane; intersections, development and model-making. Second term, 2 credits a week; summer session, 3 credits a week. Professor Willson.

Goedesy 201, 202. Structure and adjustment of engineer's field instruments. Theory of leveling, contouring, triangulation and stadia measurements. Railroad engineering. Lectures, recitations, and office work. First term, 4 hours a week; second term, 3 hours a week. Professor Harris.

Geodesy 203. Field practice, summer session, 4 credits a week. Professor Beggs and others.

Geology 202. Elementary course. General outline of the subject, including dynamical, structural, and historical geology. Second term, 3 hours a week. Professor Smyth.

Civil Engineering 201. Mechanics of materials. Strength and elasticity of materials. First term, 4 credits, consisting of 3 recitations and 1 problem exercise of 3 hours a week. Professor Beggs.

Civil Engineering, 203. Laboratory work. Testing of materials of construction in tension, compression, torsion and flexure. Reference reading. Summer session, 2 credits a week. Professor Smith.

Civil Engineering 204, 205. Structures. Elements of structural design. Design of railway plate girder. Stresses in beams, girders and simple trusses. Complete tresses for a railway truss bridge. Second term, 2 credits a week, consisting of 2 recitations and 1 drawing room exercise of 3 hours; summer session, 3 credits a week. Professor Beggs.

Civil Engineering 207. Hydraulics. Theory of hydraulics, including the elements of the theory of water wheels. Summer session, 3 hours a week. Professor Smith.

Civil Engineering 208, 209. Machine Design. Motion in mechanisms, energy in machines, proportions of machine parts as dictated by stress, and the design of machine parts, such as fastenings, bearings, shafts, journals, belting, flywheels, pulleys, spur and bevel gears. 3 credits a week; summer session, 1 credit a week. Professor Dirks.

### THE THIRD YEAR

Civil Engineering 302. Reinforced concrete. Mechanics of reinforced concrete beams, slabs and columns. Second term, 3 credits consisting of 2 recitations and 1 problem exercise of 3 hours a week. Professor Constant.

Civil Engineering 301. Laboratory work. Same as Civil Engineering 203. First term, 2 credits a week. Professor Smith.

Civil Engineering 303. Laboratory work. Continuation of above, with special attention to reinforced concrete. Summer session, 2 credits a week. Professor Smith and others.

Civil Engineering 305. Hydraulics. Same as Civil Engineering 206. First term, 3 hours a week. Professor Smith.

Civil Engineering 307. Structures. Same as Civil Engineering 204. First term, 2 credits a week. Professor Beggs.

Civil Engineering 309. Machine design. Second half of course similar to that described under Civil Engineering 208, 209. First term, 2 credits a week. Professor Dirks.

Civil Engineering 310, 311. Heat Power Engineering. General relation of energy and power considered analytically and graphically; gas and vapor energy cycles; power, efficiency and performance of steam engines, turbines, boilers and auxiliary apparatus; fuels and combustion. Laboratory work, tests of steam engines, boilers, injectors, blowers and gas engines. Both terms, 3 hours a week. Professor Dirks.

Civil Engineering 312. Bridge design. Continuation of the theory of stresses in simple trusses and the design of a railway bridge. Second term, 5 credits a week. Professor Beggs.

Civil Engineering 313. Bridge design. Deflections. Steel and concrete arches. Summer session, 4 credits a week. Professor Beggs and others.

Civil Engineering 315. Water Power. Collection, control and use of water for power purposes; selection of water wheels; laboratory measurements of the flow of water. Summer session, 6 credits a week. Professor Smith.

Economics 305, 306. Elements of Economics. Fundamental theories of economics and some of their more important applications, such as money, banking, transportation, international trade and monopoly problems. Both terms, 3 hours a week.

Electrical Engineering 301, 302. Applied Electricity. Methods of generation, transmission and utilization of electrical energy. Principal characteristics of direct and alternating current apparatus with regard to selection, installation, testing and operation of electrical machinery. Both terms, 3 hours a week, with laboratory work. Professor Thompson.

Geodesy 317. Field practice. Summer session, 4 credits a week.

English 318, 319. Theme writing and public speaking. Technical reference reading, written and oral presentation of reports upon engineering projects, argumentation, oral discussion of current topics. First term, 1 hour a week, second term, 2 hours a week. Professor Constant.

*Civil Engineering Electives*

Civil Engineering 406. Water Supply. Collection, purification and distribution of public water supplies. Second term, 2 hours a week. Professor Smith.

Civil Engineering 407. Sewerage. Design of sewers; methods of treatment and disposal of sewage. First term, 2 hours a week. Professor Smith.

Civil Engineering 409. Concrete Constructions. Design of reinforced concrete structures such as foundations, bridges, viaducts, dams, retaining walls, towers and buildings. First term, 2 credits a week of 3 hours each. Professor Constant.

Geodesy 401. Railway Economics. First term, 2 hours a week. Professor Harris.

Civil Engineering 410. Gas Engines. Thermo-dynamics of gas engines; gas engine cycles, fuels, ignition, carburetion, governors, cooling; various types of gasoline, gas and oil engines, gas engine design. Second term, 2 hours a week. Professor Dirks.

# SCHOOL OF ELECTRICAL ENGINEERING

## FACULTY

*MALCOLM MACLAREN, E.E., A.M., *Professor of Electrical Engineering, Chairman of the Department.*
HOWARD MCCLENAHAN, E.E., M.S., LL.D., *Professor of Physics*
GEORGE AUGUSTUS HULETT, PH.D., *Professor of Physical Chemistry*
*EDWIN FITCH NORTHRUP, PH.D., *Assistant Professor of Physics*

The course in Electrical Engineering is designed to furnish instruction in the theory of electricity and in its application in the arts and industries. The course of study occupies two years of graduate work.

## REQUIREMENTS FOR ADMISSION

Graduates of any accredited college will be admitted to the course in Electrical Engineering without examination, provided they have taken the requisite courses in mathematics, including calculus and elementary differential equations, general and experimental physics, and general chemistry. Applicants who have completed three years of college work or the equivalent may be admitted to the course upon passing satisfactory examinations in these subjects.

A reading knowledge of scientific French and German is desirable, as some of the reference books are written in those languages.

## TUITION

The fee for tuition in the School of Electrical Engineering is $200 per annum.

* Absent.

## COURSE OF STUDY

*First Year*

Mathematical Theory of Electricity and Magnetism. Theory of the potential; lines and tubes of force; electrostatics; dielectrics, electric images; magnetism and magnetic induction; electromagnetism; electromagnetic induction; equations of the electromagnetic field; electromagnetic theory of light; theory of alternating currents; general equations; effects of resistance, inductance and capacity; distributed capacity; the rotating field; single and polyphase currents; high frequency currents and electrical oscillations; alternating current calculations; the symbolic method. Two exercises, about five hours per week, are devoted to this work. Professor McClenahan.

Engineering Principles and Measurement. Lectures, readings, and laboratory work. Particular attention is given to the theory of, and to practice in measuring, the electrical magnetic and thermal quantities. Each student is required to devote not less than two full days a week to this course. Professor Northrup.

The Theory and Design of Direct-Current Machinery. The student is required in this course to calculate magnetization curves for a number of different types of machines, to familiarize himself with the various types of field and armature windings, and make a special study of the theory of commutation. Professor MacLaren.

During the first year an opportunity is also given to students who may be deficient in such allied subjects as Heat Engines, Strength of Materials, etc., to take suitable courses in these subjects in the Department of Civil Engineering.

*Second Year*

The Theory of Alternating Currents. This course embraces the mathematical theory of alternating current circuits and of alternating-current machinery, including a study of the transformer, induction machines, alternating current generators, synchronous motors and polyphase systems. The course includes also lectures on modern commercial testing practice. Two exercises a week for both terms.

Alternating Current Machinery. This is a continuation of the first year course in design and the same procedure is followed, except that the student executes designs for alternating current machines, and studies their commercial application in various industries. Two exercises a week for one term. Professor MacLaren.

Railway Engineering. This course is divided into three parts. The first part covers a theoretical study of the principles of locomotion, followed by the calculation of schedule speeds, power consumption, equivalent heating loads upon the motors, etc., for some representative line upon which the operating data are available for comparing results. In the second part, a series of lectures is given upon the different electrical systems in use upon interurban trolley roads. In the third part, consideration is given to some of the problems of heavy electric traction. Two exercises a week for one term. Professor MacLaren.

Electrochemistry. Two lectures a week are devoted to a consideration of the fundamental principles. The student is given special topics to work up and present to the class for discussion.

Two laboratory periods are devoted to work which illustrates important principles in theoretical and applied electrochemistry. The Electrochemical Laboratory is fully equipped for conductivity measurements

and measurements of ionic velocities, and the equipment includes various types of voltameters, normal and half electrodes, etc. The work done in this laboratory on standard cells with the potentiometer, constant temperature baths, etc., furnishes a most exact basis of all E. M. F. measurements and for the determination of high temperatures with thermocouples. A study is made of types of primary and secondary batteries, electrolytic refining of metals, and electroplating. Electric furnaces of different types are provided to illustrate some of the principal processes in electro-thermics. Professor Hulett.

An extended and specialized course will be given to those who wish to devote their attention to electrochemical engineering.

Testing. The equivalent of about two days a week during the year is set apart for testing dynamos, motors, transformers, lamps, engines and boilers. A complete plant test for an all-day run is carried out each year by the students of the School.

Collateral Lectures. Lectures are given during the second half of the year on power plant design, in which the principal electrical and mechanical features involved in the utilization of the different kinds of motive power are considered; on transmission of energy; on electric lighting, including the systems of distribution and a comparison of the different types of illuminants; and on the principles and methods of photometry. Professor MacLaren.

## DEGREE

On completion of this course the student is entitled to apply for the degree of Electrical Engineer. With his application he must present a thesis on some subject connected with electrical science.

# THE GRADUATE SCHOOL

The affairs of the Graduate School are administered by a committee of the University Faculty known as the Faculty Committee on the Graduate School. The Dean of the Graduate School is Chairman of this committee. All inquiries should be addressed to Professor West, Dean of the Graduate School.

Applicants who possess a Bachelor's degree from Princeton University, or from other institutions maintaining a similar standard in distinctively liberal studies for the Bachelor's degree, may be admitted to the Graduate School subject to the following regulations:

1. Admission on diploma to the Graduate School is granted to Bachelors of Princeton University whose standing for the undergraduate course is within the first three General Groups. A Bachelor of lower standing may not be admitted unless his average standing in undergraduate studies in the department of his proposed graduate work is higher than the Third Group.

2. The equivalent of this standard is expected of applicants holding the Bachelor's diploma from other colleges and universities.

3. In every case the further question of eligibility for a higher degree will be determined by the academic record of the applicant and his ascertained ability to pursue graduate studies.

No officer of instruction in the University, except an assistant or instructor on half-time appointment, or an instructor who has fulfilled the requirements as to residence prior to his appointment as instructor, may be a candidate

for any degree. The minimum residence requirement for the higher degrees will ordinarily be increased at the discretion of the Committee on the Graduate School, in the case of instructors or assistants on half-time appointment.

All graduate students, whether graduates of Princeton or of another institution, are required to apply for admission at the office of the Dean of the Graduate School before October first of each year, and those who present themselves for the first time must submit to the Dean their diplomas and such other credentials as may be required.

Immediately after admission every graduate student, including graduate students of the previous year, shall register and report his courses at the office of the Dean of the Graduate School.

## FEES

Graduates of universities other than Princeton are required to pay to the Treasurer a matriculation fee of five dollars. A diploma fee of ten dollars is charged every graduate student coming up for a higher degree. Every graduate student on full time, except holders of Jacobus or Procter Fellowships, is required to pay an annual tuition fee of one hundred dollars. Every graduate student on part time, except part-time assistants in Princeton University and students in Princeton Theological Seminary, is required to pay an annual tuition fee of forty dollars.

In accordance with a reciprocal arrangement between the University and Princeton Theological Seminary, duly qualified students of either institution are admitted without charge for tuition to the privileges of the other.

No charge for laboratory fees is made to graduate students, but if any department controlling a laboratory desires to charge for expenses and certifies its desire to the Treasurer, a deposit, the amount of which is to be fixed by the

department concerned, will be required to cover in whole or in part the expense incurred for supplies (subject to rebate in case the actual expense is less than the amount of the deposit.)

## DEGREES

The following degrees are given for graduate study: Master of Arts and Doctor of Philosophy.

### MASTER OF ARTS

The degree of Master of Arts may be conferred only upon those who hold a Bachelor's degree in the liberal arts and sciences from this or another approved college who shall also have devoted at least one year exclusively to resident graduate study in the University under the care of the Faculty, passing examinations upon the studies pursued; or shall have taken graduate courses in the University involving at least three hours a week each term for four terms and passed satisfactory examinations upon these courses, and on such extra reading as may be assigned. Every candidate for the Master's degree in one year is expected to take throughout the year at least three graduate courses, unless another arrangement is permitted by the Faculty Committee on the Graduate School. These courses shall be such as to form a consistent and well coördinated body of studies, and shall be subject to the approval of the Faculty Committee on the Graduate School.

Students of Princeton Theological Seminary who are enrolled in the Graduate School and maintain an average standing of not lower than Second Group in the regular course of Princeton Theological Seminary may proceed to the Master's degree if they satisfy the requirements of the University for the degree.

## DOCTOR OF PHILOSOPHY

Subject to the regulations hereinafter stated, the degree of Doctor of Philosophy may be conferred upon any Bachelor of Princeton University, or of another approved institution, provided he has spent at least two years exclusively in study for the degree. It should be clearly understood that two years is the minimum period required and that in all but the rarest cases three years will be found necessary. One year must be spent in residence at Princeton.

## REGULATIONS

*Subject of Study.* An applicant for the degree of Doctor of Philosophy chooses one of the following subjects of study:

| | |
|---|---|
| Philosophy | English |
| History | Mathematics |
| Politics | Astronomy |
| Economics | Physics |
| Art and Archaeology | Chemistry |
| Classics | Biology |
| Romanic Languages | Geology |
| Germanic Languages | |

The examination for the degree of Doctor of Philosophy consists of two parts, known as the First Part and the Second Part.

Before offering himself for the First Part of the examination for the Doctor's degree the applicant is expected to have acquired a broad, general knowledge of the subject which he has chosen and a comprehensive and detailed knowledge of some one main division of it. In certain cases, however, the applicant may, on the recommendation of the department in which his subject lies and with the approval of the Faculty Committee on the Graduate School, sub-

stitute for a main division of his subject a like division of a germane subject; or he may be required to take additional work outside his subject.

Applicants for the Doctor's degree are also required to take at some time during their period of graduate study a series of public lectures on the general trend of philosophical and scientific thought, to be given, with assigned collateral reading, by a member of the Department of Philosophy.

*The First Part of the Examination.* The First Part of the examination for the Doctor's degree is designed to test the student's mastery of his subject of study and is to be held not earlier than toward the close of the second year of graduate study. This examination may be written or oral, or both, at the discretion of the department which gives the examination.

No applicant for the degree of Doctor of Philosophy is to be enrolled as a candidate until he has satisfactorily sustained the First Part of the examination for the Doctor's degree as described above, and has shown that he is able to use French and German as instruments of research.

In case the First Part of the examination for the Doctor's degree is not sustained, the applicant may be allowed by permission of the Committee on the Graduate School to present himself for a second trial after the lapse of at least one academic term. If this second trial is unsatisfactory, no further examination will be allowed.

A student who has sustained the First Part of the examination for the Doctor's degree is entitled thereby to be recommended for the degree of Master of Arts.

*The Thesis.* After the applicant has sustained the First Part of the examination and has been enrolled as a candidate for the Doctor's degree he shall present to the department in which his work chiefly lies a thesis on some topic in the special field of his study.

*The Second Part of the Examination.* When the thesis has been accepted by the department, as giving evidence of high attainment and the power of independent research, the candidate proceeds to the Second Part of the examination for the Doctor's degree. This is a public oral examination in the field of the thesis and the more comprehensive aspects of the subject of study, and may not be divided.

*Granting of the Degree.* The Doctor's degree will be granted only after the First Part of the examination for the Doctor's degree has been sustained, the thesis accepted, the Second Part of the examination for the Doctor's degree sustained, and arrangements for publication of the thesis completed by the candidate and approved by the Committee on the Graduate School.

One hundred copies of the printed thesis must be deposited in the University Library.

## THE GRADUATE COLLEGE BUILDINGS

The buildings of the Graduate College consist of Thomson College, the gift of the late Mrs. J. R. Thomson Swann; Procter Hall, the gift of William Cooper Procter of the Class of 1883 in memory of his parents; Pyne Tower, the gift of M. Taylor Pyne of the Class of 1877; Wyman House, contributed by the Estate of Isaac C. Wyman of the Class of 1848; and the Cleveland Memorial Tower in memory of President Grover Cleveland (hon. 1897), erected out of popular contributions collected by the Cleveland Monument Association.

The endowments of the Graduate College include the fellowship fund of $300,000 given by Mr. Procter and the bequests under the will of Mr. Wyman.

## RESIDENCE IN THE GRADUATE COLLEGE

**NOTE: The buildings of the Graduate College are this year occupied by the Navy Department as an Officer-Material School for the Pay Corps, and are not available to graduate students for residence.**

The Graduate College buildings provide a suitable place of residence for graduate students, where they have the full advantage of a common life in scholarly surroundings. The prices of residence have been fixed at a minimum cost, so that it is possible to live there for less than the amount which would usually have to be paid in the village of Princeton. Certain rooms will be reserved particularly for the Jacobus and Procter Fellows, and the other Fellows are expected ordinarily to reside in the building. Rooms at minimum prices will be reserved for students who do not hold fellowships. The capacity of the building is 108 students.

All applications for admission to residence in the buildings of the Graduate College should be addressed to the *Dean of the Graduate School, Princeton University, Princeton, New Jersey.* Application blanks will be forwarded on request.

A deposit of ten dollars should accompany each application in the form of a cheque, New York draft or money order made payable to the *Treasurer of Princeton University.* This deposit will be credited against the student's bill for residence. In case the application is not granted, this deposit of ten dollars will be refunded, but will not be returned in case the application is granted, except as above stated.

Application for residence may be made at any time. So far as practicable, the rooms will be assigned in the order of application and in the order of preference indicated on the application blank. Subsequent changes of rooms will be allowed for good reasons, whenever possible. *Unless otherwise definitely arranged, the reservation of rooms is for one*

*academic year of thirty-six weeks, including the Thanksgiving Recess and the Easter Recess, but not including the Christmas Vacation.*

In case of extended absence or withdrawal from residence in the Graduate College, requests for deductions are to be made to the Treasurer of the University. No deductions are made for temporary absence.

The prices charged for residence in the Graduate College include furnished rooms, light, heat, attendance, and board, but not personal laundry. The rooms are divided into six groups, with the following present total charges to graduate students, assistants, and instructors, for the academic year of thirty-six weeks:

| | | |
|---|---|---|
| Group I | | $300.00 |
| Group II | | $330.00 |
| Group III | | $350.00 |
| Group IV | Single | $390.00 |
| | Double | $370.00 |
| Group V | | $420.00 |
| Group VI | | $480.00 |

The average weekly residential cost to the student thus ranges from $8.33 in Group I to $13.33 in Group VI. One person occupying a double suite alone is charged two-thirds of the price for two occupants. Arrangements for members of the Faculty, other than instructors, who desire to reside in the Graduate College, are made at an advance over the graduate students' rates.

Graduate students rooming outside may be admitted to the table and other privileges of the Graduate College, except residence, at a charge of $230.00 for the academic

year. Graduate students of the University who are not at the table nor resident in the buildings are invited to avail themselves of the other privileges of the Graduate College. Coupon books for occasional meals are furnished at a moderate cost for the use of the members of the Faculty, the graduate students, and their invited guests, and the Trustees and alumni of the University.

# FELLOWSHIPS

## I. UNIVERSITY FELLOWSHIPS

These fellowships are intended to encourage advanced study and promote original research in the several departments to which they are assigned. They are distinguished from the college fellowships by being open to the graduates of any American college, while the appointments are made, not by competitive examination, but by a comparison of the records presented by the applicants as to their previous collegiate standing, capacity, and character.

The University fellowships are subject to the following regulations:

1. A Fellow must devote himself to study under the direction of the department in which the fellowship is provided. But any Fellow resident in Princeton may be called upon occasionally to give instruction in his department.

2. A Fellow is not ordinarily permitted to give private tuition.

3. The fellowships are to be held for one year, but in cases of special merit they may be continued for a longer period by recommendation of the department and sanction of the Faculty.

4. The candidates shall be graduates possessing a satisfactory Bachelor's diploma in liberal studies from an accredited American college. An application should be accompanied with evidence of the qualifications of the applicant to pursue an independent course of study and investigation in the department concerned.

5. Appointment shall be made by the Faculty upon recommendation of the professors in the department interested and of the Faculty Committee on the Graduate School, and shall be announced at Commencement.

6. All requests for fellowship or scholarship application blanks shall be addressed to the Dean of the Graduate School and all applications should be in the hands of the Dean of the Graduate School on or before March 1, the appointees to hold their positions for a year from the following September. Applications received later than March 1 may be considered in special cases, and to fill vacancies.

## CLASSES OF UNIVERSITY FELLOWSHIPS

The University Fellowships are divided into two classes, the advanced and the ordinary.

The advanced fellowships include the Jacobus Fellowship and the ten Procter Fellowships. They have an annual stipend of one thousand dollars each, exempt from charge for tuition, and are assigned only to graduate students of at least one year's standing who have given evidence of unusual ability in their graduate work and capacity to engage successfully in research.

The ordinary fellowships regularly have a stipend of six hundred dollars on first appointment, and of seven hundred dollars on re-appointment, subject to the charge of one hundred dollars for tuition. The number of these fellowships is approximately thirty-five and varies slightly from year to year.

## ADVANCED FELLOWSHIPS

### PORTER OGDEN JACOBUS FELLOWSHIP

Established in 1905 by the generosity of Mrs. Clara Cooley Jacobus. This fellowship will be conferred upon that regularly enrolled student of the Graduate School who, in the judgment of the University Faculty, shall have evinced the highest scholarly excellence in his graduate work during the year. The appointee to this fellowship re-

ceives the income from an endowment of $25,000 and is expected to devote himself exclusively to study under the direction of the Faculty.

### THE CHARLOTTE ELIZABETH PROCTER FELLOWSHIPS

These fellowships are established on an endowment of three hundred thousand ($300,000) dollars, given in memory of Charlotte Elizabeth Procter by her son. The terms of the fellowships are as follows:

1. The fellowships shall be known as The Charlotte Elizabeth Procter Fellowships, and the holders thereof shall be exempt from tuition fees.

2. The fellowships are open only to unmarried men who are graduates of not more than six years' standing and who hold the Bachelor's degree in distinctively liberal studies from Princeton University or from some other institution maintaining a similar standard for the Bachelor's degree.

3. Appointment is to be made by vote of the University Faculty on nomination by the Dean of the Graduate School after consultation with the full professors in the department interested.

4. The tenure of each fellowship is one academic year, subject to re-appointment of not more than two years longer, except on evidence of extraordinary ability and upon unanimous vote of the University Faculty.

5. The fellowships are not to be allocated to separate departments but are open to all the departments conducting graduate work in the liberal arts and sciences.

6. Every Fellow appointed on this Foundation shall reside in the buildings of the Graduate College, unless dispensed therefrom by the Dean of the Graduate School, and shall devote himself to advanced study to the exclusion of

tutoring, teaching, lecturing or any other occupation or employment.

7. In case the conduct or work of any Fellow is unsatisfactory, the tenure of his fellowship may be terminated by the University Faculty.

8. The stipend of each fellowship shall be one thousand ($1,000.00) dollars annually, and no fellowship may be divided.

9. The income of the Foundation is to be applied to maintaining as many fellowships, each yielding one thousand ($1,000.00) dollars annually, as eighty per cent of the income will warrant. All income in excess of eighty per cent shall be applied first, to maintaining the principal of the Foundation, and then to re-investment for the purpose of increasing the stipend of the fellowships in amounts of one hundred ($100.00) dollars each, as rapidly as eighty per cent of such re-investment will permit.

PROVIDED, HOWEVER, that whenever the stipend of such fellowships amounts to fifteen hundred ($1,500.00) dollars each per year, thereafter no further increase in the stipend shall be made, but additional fellowships of fifteen hundred ($1,500.00) dollars shall be founded as rapidly as said eighty per cent of such re-investment will allow. All excess of income remaining at the end of each fiscal year is to be applied to the increase of the capital fund.

## ORDINARY FELLOWSHIPS

### J. S. K. MATHEMATICAL FELLOWSHIP FUND

This fund was founded in 1873 by a resident of New York City, who gave $11,000 for the purpose. Through accumulations of interest it now amounts to $24,150. In accordance with the deed of gift, the income from this fund is to be "used exclusively for University fellowships in the

Department of Mathematics." One Fellow in mathematics will be appointed each year. Frequently a second Fellow may be appointed. Appointments will be made on the basis of the records presented by the applicants as to their previous collegiate standing, capacity, and character. In addition, in the case of resident students, a competitive examination may be held in June on geometry, differential equations, and the theory of functions.

### SOUTH EAST CLUB UNIVERSITY FELLOWSHIP IN SOCIAL SCIENCE

This fellowship, which has a fund yielding $500 per annum, was founded by alumni of the classes of '76, '77, '78, and '79, former residents of the South Entry of East College.

### CLASS OF 1877 UNIVERSITY FELLOWSHIP IN BIOLOGY

This fellowship has an endowment yielding $400 per annum.

### CHARLES SCRIBNER UNIVERSITY FELLOWSHIP IN ENGLISH LITERATURE

This fellowship, which has an endowment yielding $500 per annum, was founded in memory of Charles Scribner, of the Class of 1840, by his son, Charles Scribner, of the Class of 1875.

### THAW FELLOWSHIP IN ASTRONOMY

This fellowship, which has an endowment of $10,000, was founded by Mrs. William Thaw.

### JOHN HARDING PAGE CLASSICAL FELLOWSHIP

This fellowship was established in 1900 by Mrs. James Laughlin, Jr., as a memorial to her father, Mr. John Harding Page. It is conferred by appointment of the Faculty and has an endowment of $10,000.

FRANCIS HINTON MAULE BIOLOGICAL FELLOWSHIP

This fellowship was founded in 1901 by Mr. and Mrs. Francis I. Maule as a memorial to their son, Francis Hinton Maule, who was a student in the University during the years 1895-98. It is conferred by appointment of the Faculty and has an endowment of $10,000.

CLASS OF 1860 EXPERIMENTAL SCIENCE FELLOWSHIP

This fellowship was founded in 1870 upon the sum of $10,000 subscribed by the Class of 1860. A deficiency of income, resulting from the depreciation of the value of the securities in which the principal was invested and the lowering of the rate of interest, is paid, by the consent of the donor, from the income of the Magee Professorship of Mining and Engineering, founded by George J. Magee, of the Class of 1860. By action of the Board of Trustees, taken in 1904, this fellowship was constituted a University Fellowship, to be administered, under the regulations governing the administration of such fellowships, by the Departments of Physics and Chemistry.

HARVARD FELLOWSHIP IN CHEMISTRY

Founded in 1905 by the generosity of one of the Fellows of Harvard University, with an endowment of $10,000.

GORDON MACDONALD FELLOWSHIP

This fellowship, at present unassigned to any department, was established in 1908 by Mr. James Speyer as a memorial to his friend and partner, Gordon Macdonald. The endowment yields about $500 annual income.

ORSON DESAIX MUNN UNIVERSITY FELLOWSHIP IN ELECTRICAL ENGINEERING

This fellowship was established in 1908 as a memorial to Orson Desaix Munn by his son, Charles A. Munn, of the

Class of 1881, and Mrs. Henry Norcross Munn. It is awarded to the applicant who has made the best record in undergraduate work in Princeton, or other accredited college, and who shows the highest qualifications in respect to those subjects which are directly preparatory to the course in Electrical Engineering. It is conferred by appointment of the Faculty, upon recommendation by the School of Electrical Engineering, and pays the holder the income of $10,000. All applications must be in the hands of the School of Electrical Engineering before April 15.

BOUDINOT HISTORICAL FELLOWSHIP

This fellowship, founded in part upon a bequest of Dr. Elias Boudinot, of New Jersey, was constituted a University Fellowship in 1909. The income from the endowment is $200.

BOUDINOT MODERN LANGUAGE FELLOWSHIP

This fellowship, founded in part upon a bequest of Dr. Elias Boudinot, of New Jersey, was constituted a University Fellowship in 1909. The income from the endowment is $200.

CLASS OF 1883 UNIVERSITY FELLOWSHIPS

In June, 1910, the Class of 1883 contributed the sum of $30,000 to establish two University Fellowships with an income of not less than $600 each; the two fellowships to be awarded by preference in the Departments of Politics, Physics, Chemistry, Biology or Geology.

## II. COLLEGE FELLOWSHIPS

Besides the degrees and honors conferred in the regular undergraduate course, annual fellowships, competitive scholarships, and prizes are offered as special incentives to

study, in the classes or departments with which they are connected.

Only matriculated students who are candidates for a degree are admitted to the competition for these fellowships, prizes, and scholarships, and no one is admitted to such competition who has failed to pass satisfactorily his last preceding examination in any of the departments.

No member of any class is allowed to compete for more than one of the fellowships or scholarships offered to that class.

Every competitor must have been a member of the University in full standing for at least two academic years previous to the fellowship examinations.

Every Fellow obtaining one of the competitive fellowships the income of which is $400 or over must devote his whole time for one year to study in the department for which the fellowship is provided, under the direction of the professors in that department. He must reside in Princeton, unless by a vote of the Faculty he be allowed to study at an approved foreign university, in which case he shall from time to time furnish written reports of his work to the professors in his department. The result of every examination and the reports of work done abroad shall be immediately returned to the Faculty. Any Fellow, resident in Princeton, shall when called upon perform such duties in the department to which he belongs as may be assigned to him by the President at the request of the professors in that department.

### CHANCELLOR GREEN MENTAL SCIENCE FELLOWSHIP

This fellowship, originally founded in 1870 upon the annual payment of $600 by the late Chancellor Henry W. Green, was permanently endowed in 1878 by a gift of

$10,000 by his widow. This fellowship is open to any member of the senior class who graduates. It is awarded, subject to the approval of the Faculty, by the full professors of the Department of Philosophy and Psychology.

CLASS OF 1873 FELLOWSHIP IN ENGLISH LITERATURE

This fellowship was established in 1908 by the Class of 1873. It pays the holder the income of $15,000, and is open to any member of the senior class of Princeton University who graduates. It is awarded, subject to the approval of the Faculty, by the decision of the full professors of the English Department, either (1) upon a competitive examination, or (2) upon general excellence of the work done in English during junior and senior years. The purpose of the donors is to promote the study of English literature in itself and in relation to the literatures of the world, ancient and modern.

THE E. M. BIOLOGICAL FELLOWSHIP

This fellowship conveys the use of a table in the Laboratory of the U. S. Bureau of Fisheries at Woods Hole, Mass., together with all the facilities afforded for the collection and study of animal life during the season favorable for such investigations. The fellowship is conferred by appointment of the Faculty.

SAYRE FELLOWSHIP IN APPLIED CHEMISTRY

This fellowship was founded by the bequest of the late Dr. John Stanford Sayre, of the Class of 1878, and its endowment yields an income of $600 per annum. It will be awarded to that member of the senior class in Princeton University who shall pass the best examination in general chemistry, one year of qualitative analysis, one year of quantitative analysis, and general physics. The examination will be held about June first.

### SAYRE FELLOWSHIP IN APPLIED ELECTRICITY

This fellowship was founded by the bequest of the late Dr. John Stanford Sayre, of the Class of 1878, and its endowment yields an income of $600 per annum. It will be awarded to that member of the senior class in Princeton University who shall pass the best examination in general physics, general chemistry, and mathematics, including elementary differential equations. The examinations will be held in Princeton on or about June first. The holder of the fellowship will be required to devote his entire time to work under the direction of the School of Electrical Engineering.

Applications for this fellowship should be made to the School of Electrical Engineering.

## III. GRADUATE SCHOLARSHIPS

A number of graduate scholarships yielding respectively two hundred and fifty dollars and one hundred dollars each, subject to the charge of one hundred dollars for tuition, are maintained by university appropriation. They are awarded by the Faculty, on the basis of scholarships, upon the recommendation of the Professors in the several departments and of the Faculty Committee on the Graduate School. There are also the following endowed graduate scholarships:

### JAMES W. QUEEN GRADUATE SCHOLARSHIP

This scholarship was founded in 1908 with a bequest of $5,000, by Mrs. Abby S. Queen. By action of the Faculty it has been assigned to the Department of Physics. The incumbent of the scholarship shall be a regularly enrolled graduate student of the University, who is doing the principal part of his work in the Department of Physics. Ap-

plications for this scholarship should be made to the chairman of the Department of Physics.

### THEODORE CUYLER GRADUATE SCHOLARSHIP

This scholarship was founded by the late C. C. Cuyler, of the Class of 1879, and was constituted as a graduate scholarship in 1909. It pays the holder $300, less the charge of one hundred dollars for tuition.

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NOTE.—The stipends of all fellowships and graduate scholarships are paid in four equal installments, ordinarily in October, January, March, and June.

## GRADUATE COURSES OF INSTRUCTION

Any graduate course announced in the catalogue will be given, if applied for by any duly qualified graduate student.

The courses which are open to *graduate students only* are as follows:

### PHILOSOPHY AND PSYCHOLOGY

#### PSYCHOLOGY

A. Critical and Historical Survey of the general trend of philosophical and scientific thought. A course of twelve lectures, one hour a week, with assigned collateral reading, required of all candidates for the degree of Doctor of Philosophy. Professor Fite. [Not given, 1918-1919.]

501, 502. The Philosophy of Kant. *The Critique of Pure Reason.* Both terms, 3 hours a week. [1919-1920.] Professor Whitney.

503. The Historical Method in Philosophy. First term, three hours a week. [Not given, 1918-1919.] Professor Kemp Smith.

504. The Philosophy of Kant. *The Critique of Practical Reason,* and the *Critique of Judgment.* Second term, 3 hours a week. [Not given, 1918-1919.] Professor Kemp Smith.

507, 508. The Philosophy of Plato. Both terms, 3 hours a week. [1919-1920.] Professor Bowman.

509, 510. The Speculative Movement in Germany between 1794 and 1831, with special reference to the philosophy of Hegel. Both terms, 3 hours a week. Professor Bowman.

525, 526. English Empiricism. Both terms, 3 hours a week. Professor Whitney.

521, 522. Nineteenth-Century Philosophy. Both terms, 3 hours a week. [1919-1920.] Professor Longwell.

523, 524. Mediaeval Philosophy. Both terms, 3 hours a week. Professor Longwell.

517, 518. The Logical Structure of Philosophical Systems. Both terms, 3 hours a week. [Not given, 1918-1919.] Professor Spaulding.

519, 520. The Philosophy of Evolution. Both terms, 3 hours a week. [1919-1920.] Professor Spaulding.

527, 528. Idealistic Theories of Reality. Both terms, 3 hours a week. Professor Johnson.

529. Contemporary Tendencies in Philosophy. First term, 3 hours a week. [1919-1920.] Professor Johnson.

530. Idealistic Theory in its Relation to Special Problems of Nature and the Self. Second term, 3 hours a week. [1919-1920.] Professor Johnson.

513, 514. The Conception of Consciousness. Both terms, 3 hours a week. [1919-1920.] Professor Fite.

515, 516. The History of Ethics. Both terms, 3 hours a week. Professor Fite.

### PSYCHOLOGY

505, 506. Theory and Methods of Experimental Psychology. Lectures, with demonstrations, and minor laboratory problems. Both terms, 3 hours a week. Professor Warren.

511, 512. Research in Experimental Psychology. Students with sufficient training are assigned original research problems. About 9 hours of laboratory work weekly. Both terms, 3 hours a week.

531. Physiological Psychology. Lectures, demonstrations, and reports. First term, 3 hours a week. [Not given, 1918-1919.]

532. Abnormal Psychology. Lectures and clinical demonstrations in visits to the Trenton State Hospital for the Insane. Second term, 3 hours a week. [Not given, 1918-1919.]

534. Psychopathology. Lectures, and clinical demonstrations at the Trenton State Hospital. Second term, 3 hours a week. [Not given, 1918-1919.] Dr. Cotton.

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PSYCHOLOGICAL SEMINARY. Topic to be determined in consultation with the class. Open to graduate students in philosophy and psychology. Both terms. Professor Warren.

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For undergraduate courses in Philosophy and Psychology also listed as graduate courses, see page 256.

## HISTORY AND POLITICS

The graduate work offered by the Department of History and Politics consists of: (1) Starred lecture courses, (2) Graduate seminaries, and (3) Graduate reading courses.

(1) *Starred lecture courses.* Certain senior courses, marked with a star in the preceding pages, may be counted as graduate courses by students having written authority from the chairman of the Department. Extra work in these courses will be required of graduate students.

(2) *Graduate seminaries,* for training in research.

(3) *Graduate reading courses,* to acquaint the student with the literature in the fields of History and Politics.

### GRADUATE SEMINARIES

505, 506. Mediaeval History. The First Crusade and the Latin Kingdom of Jerusalem. Professor Munro.

507, 508. European History.

*a.* The Revival of Learning in the Fourteenth and Fifteenth Centuries.

*b*. The Protestant Reformation.

*c*. Mediaeval France. These courses are offered in a three-year cycle. Courses 507, 508c (Mediaeval France) will be given in 1918-1919. Professor Robinson.

509, 510. History of the United States from 1850 to 1916. Professor Wertenbaker.

514. Diplomatics. Study of the scripts and forms of mediaeval documents. Second term, 3 hours a week. Dr. Van Hoesen.

519, Representative Government. Professor Ford.

521, 522. Problems of Administration. Professor Corwin. [Not given, 1918-1919.]

523, 524. Constitutional Law and Theory. Ordinarily the first year's work in this field comprises the starred lecture courses (Politics 409, 410) and certain additional work. Professor Corwin.

529,530. Greek Politics. (Classics, 513, 514). Professor Capps. [Not given, 1918-1919.]

534*a*. The Roman Provinces (Classics 572). Second term. Professor Abbott.

534*b*. Roman Politics (Classics 574). Second term. Professor Abbott.

## Graduate Reading Courses

### I.—History

535, 536. Ancient Oriental History, Greek History, and Roman History. Professor Abbott.

539, 540. History of Modern Continental Europe. Professor Shipman.

545, 546. Political Institutions. Professor Ford.

551, 552*a*. Theory and Practice of Diplomacy. [Second term only, 1918-1919.] Professor Brown.

551, 552*b*. International Arbitration. [Second term only, 1918-1919.] Professor Brown.

PREPARATION FOR GOVERNMENT SERVICE

The following courses are suggested for those preparing for the diplomatic, consular and insular services. Courses in French, German, and Spanish are also available.

303. Politics. Constitutional Government.
304. Politics. Elements of Jurisprudence.
405. Politics. Municipal Government.
406. Politics. Federal and State Government.
407. Politics. International Law.
409, 410. Politics. Administrative Law.
411. European Economic Policy.
551, 552. Politics. Theory and Practice of Diplomacy.
403, 404. History. American History.
305, 306. Elements of Economics.
409. Economics. Money and Banking.

ECONOMICS AND SOCIAL INSTITUTIONS

501. Economic Principles. Review of the theory of value and of the fundamental problems in the theory of distribution. First term, 3 hours a week. Professor Fetter. [Not given, 1918-1919.]
503. Monetary and Banking History of the United States, from 1789 to 1879. A seminary course based chiefly upon source materials. First term, 3 hours a week. Professor Kemmerer. [Not given, 1918-1919.]
507. Labor Problems and Labor Organizations. An examination of present-day labor problems. First term, 3 hours a week. Professor McCabe. [Not given, 1918-1919.]
508. Labor Legislation. A study of legislative measures for the amelioration of the condition of the industrial

classes. Second term, 3 hours a week. Professor McCabe. [Not given, 1918-1919.]

509. The Organization of Industry. First term, 3 hours a week. Professor Knauth. [Not given, 1918-1919.]

511. Accounting. Devoted chiefly to municipal accounting. First term, 3 hours a week. [Not given, 1918-1919.] Professor Bauer.

512. Regulation of Public Service Corporations. Second term, 3 hours a week. Professor Bauer. [Not given, 1918-1919.]

514. Statistics. A study of statistical method with practical work in tabulation and interpretation. Second term, 3 hours a week. Professor Adriance. [Not given, 1918-1919.]

515. Taxation. Principles and problems of taxation. First term, 3 hours a week. Dr. Young. [Not given, 1918-1919.]

518. Insurance. An examination of the essential principles of insurance, Second term, 3 hours a week. Professor Carothers. [Not given, 1918-1919.]

527. Money. A study of the principles of money as exemplified in certain modern currency reforms. For this year reforms studied will be those of India, Mexico, the Philippine Islands, Porto Rico. First term, 3 hours a week. Professor Kemmerer.

528. Banking. A study of present day banking conditions and problems in the United States. Particular attention is given to the Federal Reserve system, and this is studied in the light of modern European banking experience. Second term, 3 hours a week. Professor Kemmerer.

552. The Theory of Distribution. Second term, 3 hours a week. Professor Fetter. [Not given, 1918-1919.]

534. The Terminology of Economics. Second term, 3 hours a week. Professor Fetter. [Not given, 1918-1919.]

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SEMINARY IN ECONOMICS.—The graduate students, candidates for degrees, will meet from time to time with the members of the Faculty to discuss theses in progress. No registration is required.

READINGS IN GERMAN AND FRENCH ECONOMISTS. A study of some of the leading works. One hour a week, optional, each term. Professor Fetter. [Not given, 1918-1919.]

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For undergraduate courses in Economics also listed as graduate courses, see page 257.

## ART AND ARCHAEOLOGY

*Given in 1918-1919*

515. Italian Sculpture of the fourteenth century. First term, 3 hours a week. Professor Marquand.

516. Italian Sculpture of the fifteenth century. Second term, 3 hours a week. Professor Marquand.

519, 520. Gothic Architecture. Both terms, 3 hours a week. Professor Butler.

511. Giotto and his Associates. First term, 3 hours a week. Professor Mather. [Not given, 1918-1919.]

512. El Greco and Velasquez. Second term, 3 hours a week. Professor Mather. [Not given, 1918-1919.]

509. Early Christian Art. First term, 3 hours a week. Professor Morey.

528. Mediaeval Illumination. Second term, 3 hours a week. Professor Morey.

507. Archaeology. First term, 3 hours a week. Professor Elderkin or Professor Morey.

510. Greek Sculpture. Second term, 3 hours a week. Professor Elderkin or Professor Morey.

532. Olympia, Delphi, and Epidaurus. Second term, 3 week. Professor Elderkin.

*Given in 1919-1920*

513. Theories of Art. First term, 3 hours a week. Professor Marquand.

503, 504. Early Christian and Byzantine Architecture. Both terms, 3 hours a week. Professor Butler.

517. Sienese Painters of the thirteenth and fourteenth centuries. First term, 3 hours a week. Professor Mather.

518. Leonardo da Vinci. Second term, 3 hours a week. Professor Mather.

509. Early Christian Art. First term, 3 hours a week. Professor Morey.

528. Mediaeval Illumination. Second term, 3 hours a week. Professor Morey.

507. Greek Archaeology. First term, 3 hours a week. Professor Elderkin.

510. Greek Sculpture. Second term, 3 hours a week. Professor Elderkin.

514. Greek Painting. Second term, 3 hours a week. Professor Elderkin.

*Given in 1920-1921*

501. Italian Sculpture, from the fourth to the eleventh century. First term, 3 hours a week. Professor Marquand.

503. Italian Sculpture, from the eleventh to the fourteenth century. Second term, 3 hours a week. Professor Marquand.

505, 506. Romanesque Architecture. Both terms, 3 hours a week. Professor Butler.

525. Masaccio and the Florentine Realists. First term, 3 hours a week. Professor Mather.

526. Giorgione, Palma Vecchio, and Titian. Second term, 3 hours a week. Professor Mather.

509. Early Christian Art. First term, 3 hours a week. Professor Morey.

528. Mediaeval Illumination. Second term, 3 hours a week. Professor Morey.

507. Greek Archaeology. First term, 3 hours a week. Professor Elderkin.

510. Greek Sculpture. Second term, 3 hours a week. Professor Elderkin.

534. Art Commentary on Greek Literature. Second term, 3 hours a week. Professor Elderkin.

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For undergraduates courses in Art and Archaeology also listed as graduate courses, see pages 257-258.

SANSKRIT AND GENERAL LINGUISTICS

401, 402. Elementary Sanskrit. Grammar, exercises and reading, with comparison of sounds and forms with the Latin, Greek, and Germanic. This course is intended especially for students of the Classical and Germanic languages. Both terms, 3 hours a week. Professor Robbins.

501. Classical Sanskrit. Selections from the Hitopadeca, and the Mānava-Dharma-Cāstra. Introduction into the later Sanskrit literature. Comparative study of words and forms. First term, 3 hours a week. Professor Bender.

502. Vedic Philology and Literature. Reading and interpretation of selected hymns of the Rig-Veda or Atharva-Veda, with comparative study of their linguistic and mythological elements. Second term, 3 hours a week. Professor Bender.

503. The Elements of Linguistic Science. The history, methods, and results of Comparative Philology, with some account of the ethnology and religions of the Indo-European peoples. The origin, life, and growth of language. First term, 3 hours a week. Professor Bender.

504. Comparative Grammar of the Indo-European Languages. The fundamentals of the subject with special emphasis on Greek, Latin, German, Sanskrit. Second term, 3 hours a week. Professor Bender.

## CLASSICS

### GREEK

Greek Composition. A certain degree of facility in writing Greek is expected of candidates for the Doctor's degree, and those who have not already attained it are advised to make the necessary arrangements for the purpose with Professor Hutson. [1919-1920.]

501. Comparative Greek and Latin Grammar. First term, 3 hours a week. Professor Robbins.

505. Attic Orators. First term, 3 hours a week. Professor Hutson. [Not given, 1918-1919.]

510. Demosthenes. Second term, 3 hours a week. Professor Capps. [Not given, 1918-1919.]

512. Pindar and Bacchylides. Second term, 3 hours a week. Professor Capps. [Not given, 1918-1919.]

513. Aristotle. The Athenian Constitution. First term, 3 hours a week. Professor Capps. [Not given, 1918-1919.]

514. Aristotle. The Politics. Second term, 3 hours a week. Professor Capps. [1919-1920.]

516. Greek Comedy. Second term, 3 hours a week. Professor Capps. [Not given, 1918-1919.]

517. Thucydides. First term, 3 hours a week. Professor Prentice. [1919-1920.]

518. History of Greece. Lectures on the History of Greek lands, from the earliest times to the Roman conquest. Second term, 3 hours a week. Professor Prentice. [Not given, 1918-1919.]

521. Homeric Antiquities. First term, 3 hours a week. Professor Prentice. [Not given, 1918-1919].

522. Topography of Attica. Second term, 3 hours a week. Professor Johnson. [Not given, 1918-1919.]

523. Greek Papyri. First term, 3 hours a week. Professor Capps. [Not given, 1918-1919.]

524. Documents from the Greek Inscriptions. Second term, 3 hours a week. Professor Johnson.

525, 526. The Greek Theatre. Both terms, 3 hours a week. Professor Capps. [1919-1920.]

527. Introduction to the Principles and Methods of Text Criticism. First term, 3 hours a week. Professor Capps. [Not given, 1918-1919.]

530. Greek Dialects. Second term, 3 hours a week. This course alternates with that on the Italic Dialects. Professor Robbins.

533. Arrian and the Sources of the History of Alexander. First term, 3 hours a week. Professor Prentice. [Not given, 1918-1919.]

534. Greek Inscriptions. Second term, 3 hours a week. Professor Prentice. [Not given, 1918-1919.]

535, 536. Greek Tragedy. Both terms, 3 hours a week. Professor Capps. [Not given, 1918-1919.]

537. Greek Palaeography. First term, 3 hours a week. Dr. van den Ven. [Not given, 1918-1919.]

538. Later Greek Sophistry. Second term, 3 hours a week. Dr. van den Ven. [Not given, 1918-1919.]

539. Greek Christian Oratory of the Fourth Century. First term, 3 hours a week. Dr. van den Ven. [Not given, 1918-1919.]

540. The Age of Justinian. Second term, 3 hours a week. Dr. van den Ven. [Not given, 1918-1919.]

541. Greek Epistolography. Second term, 3 hours a week. Dr. van den Ven. [Not given, 1918-1919.]

553, 554. Byzantine History. Three hours a week. Dr. van den Ven. [Not given, 1918-1919.]

### LATIN

Latin Composition. A certain degree of facility in writing Latin is expected of candidates for the Doctor's degree, and those who have not already attained it are advised to make the necessary arrangements for the purpose with Professor Basore.

501. Comparative Greek and Latin Grammar. See page 237.

544. The Works of Caesar and his continuators. Second term, 3 hours a week. Professor Westcott.

545. The Life and Works of Cicero. First term, 3 hours a week. Professor David Magie.

549, 550. Virgil. The works of Virgil and the *Appendix Vergiliana*. Both terms, 3 hours a week. Professor Stuart. [1919-1920.]

552. Livy. Second term, 3 hours a week. Professor Westcott. [1919-1920.]

548. Plautus. Second term, 3 hours a week. Professor Abbott. [1920-1921.]

556. Alexandrian Influence in Roman Poetry. Second term, 3 hours a week. Professor Stuart. [1920-1921.]

557. Early Latin. First term, 3 hours a week. Professor Abbott. [Not given, 1918-1919.]

558. Italic Dialects. Second term, 3 hours a week. Professor Robbins. [Not given, 1918-1919.]

554. Roman Biography. Second term, 3 hours a week. Professor Stuart.

560. Ancient Literary Criticism. Second term, 3 hours a week. Professor Basore.

562. Ancient Rhetoric. Second term, 3 hours a week. [Not given, 1918-1919.]

563, 564. The Latin Romance. Both terms, 3 hours a week. Professor Abbott. [1919-1920.]

567. Latin Inscriptions. First term, 3 hours a week. Professor Abbott.

565. Palaeography. General and applied. First term, 3 hours a week. Dr. Richardson and Dr. Van Hoesen. [Not given, 1918-1919.]

569. Historians of the Roman Empire. First term, 3 hours a week. Professor David Magie. [1919-1920.]

573. History of the Early Roman Empire. First term, 3 hours a week. Professor David Magie. [1920-1921.]

572. The Roman Provinces. First term, 3 hours a week. Professor Abbott. [1919-1920.]

574. Research Course in Roman Politics. Second term, 3 hours a week. Professor Abbott.

576. The Private Law Orations of Cicero. Second term, 3 hours a week. Professor Westcott. [1919-1920.]

578. Sources of Early Roman Law. Second term, 3 hours a week. Professor Westcott.

579, 580. Colloquial Latin. Both terms, 3 hours a week. Professor Abbott. [Not given, 1918-1919.]

581. General Course in Classical Philology. First term, 3 hours a week. Professor Abbott. [1920-1921.]

587, 588. Augustine and Patristic Latin. Both terms, 3 hours a week. Dean West. [1920-1921.]

589, 590. Early Mediaeval Histories. Both terms, 3 hours a week. Dean West.

591, 592. Later Mediaeval Literature. Both terms, 3 hours a week. Dean West. [1919-1920.]

## ENGLISH

501. Germanic Origins of English Speech. Prerequisite to 502 and 515, 516. First term, 3 hours a week. Professor Spaeth. [Not given, 1918-1919.]

502. Historical English Grammar. Course 501 is a prerequisite to this course. Second term, 3 hours a week. Professor Griffin.

503. Old English Poetry. First term, 3 hours a week. Professor Griffin.

504. The Old English Epic: Pagan. Second term, 3 hours a week. Professor Spaeth.

506. The Old English Epic: Christian. Second term, 3 hours a week. Professor Gerould. [Not given, 1918-1919.]

507, 508. Ælfred and his Times. Both terms, 3 hours a week. Professor Miles. [Not given, 1918-1919.]

509, 510. Old French. An introductory course, especially adapted to students of English. Both terms, 3 hours a week. Professor Buffum.

511, 512. Chaucer. Both terms, 3 hours a week. Professor Root. [Not given, 1918-1919.]

513, 514. Types of Mediaeval Narrative. Both terms, 3 hours a week. Professor Gerould. [Not given, 1918-1919.]

515, 516. Romances of Classical Origin. A study of the relation of the Romances of Troy, Thebes, and Alexander to one another and to their classical prototypes. Both terms, 3 hours a week. Professor Griffin.

517, 518. The Renaissance in England, with especial reference to Spenser. A study of the poetry and genius of Spenser, especially as modified and determined by humanism and the Italian Renaissance. Both terms,

3 hours a week. [1918-1919 and alternate years following.] Professor Osgood.

519, 520. Elizabethan Drama. The object of this course is to obtain a first-hand knowledge of the chief figures and main types in the drama from 1500 to 1642. Both terms, 3 hours a week. Professor Parrott.

521. Shakespeare. Introduction to the criticism and interpretation of the text of Shakespeare. First term, 3 hours a week. [1918-1919 and alternate years following.] Professor Parrott.

523, 524. The forms of English Prose-Style from 1500 to 1680 in relation to their classical and mediaeval models, and to the movements of contemporary thought. Both terms, 3 hours a week. Professor Croll. [1919-1920 and alternate years following.]

525, 526. Milton. The chief cultural forces of Milton's time, especially those which were combined in his own character and training. Both terms, 3 hours a week. [1917-1918 and alternate years following.] Professor Osgood.

527, 528. The Drama in England from 1660 to 1900. Both terms, 3 hours a week. Professor Heermance. [Not given, 1918-1919.]

529, 530. Wordsworth and Coleridge. Their early contemporaries, their relations to the political and philosophical currents of their time, and their influence upon the theory and practice of poetry in Britain and America. Both terms, 3 hours a week. [1918-1919 and alternate years following.] Professor Harper.

531, 532. History of Literary Criticism. A study of the chief theories of criticism, ancient and modern. Both terms, 3 hours a week. [1919-1920 and alternate years following.] Professor Harper.

533, 534. The English Lyric. The object of the course

is to trace the chief influences which have provided the English lyric with its forms. Both terms, 3 hours a week. [1918-1919 and alternate years following.] Professor Croll.

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See also Modern Languages, Romanic, 539, 540. The Technique of the Drama. Professor Stuart.

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Aside from the courses described above, graduate students are permitted to follow the senior courses in Old English literature and in the literature of the eighteenth and nineteenth centuries, provided that they fulfil certain stipulated requirements.

## MODERN LANGUAGES

### GERMANIC

501. Old High German. Grammar, reading, and lectures on the historical development of the German language. First term, 3 hours a week. Professor Hoskins.

503. Gothic. Grammar, reading, and lectures. First term, 3 hours a week. Professor Bender.

507, 508. Advanced German Composition. Both terms, 1 hour a week. Professor Blau.

510. Middle High German. Grammar, lectures, and reading. Second term, 3 hours a week. Professor Hoskins.

511, 512. Old Icelandic. Grammar, lectures, and reading. For advanced students. Both terms, 3 hours a week. Professor Priest.

514. Lithuanian. Introduction to the language and literature. Second term, 3 hours a week. Professor Bender.

515, 516. History of the Novel in Germany. Both terms, 3 hours a week. Professor Thayer. [Not given, 1918-1919.]

517, 518. History of Lyric and Ballad Poetry in Germany. Both terms, 3 hours a week. Professor Blau.

In addition to the work offered in Germanics, courses in General Linguistics and Sanskrit are also given. See page 236.

The following courses, though not regularly scheduled for 1918-1919, have been offered in previous years, and may, on application, be given:

504. German Literature since 1885. Second term, 3 hours a week. Professor Priest.

505, 506. History of the Drama in Germany. Both terms, 3 hours a week. Dr. Wallace. [Not given, 1918-1919.]

509. Historical German Grammar. First term, 3 hours a week. Professor Hoskins.

522. Introduction to the study of Old German Literature. Second term, 3 hours a week. Professor Hoskins.

The following courses, though designated for undergraduates in their senior year, are open to first year graduate students who, in addition to the regular work, fulfil certain specified requirements. They are described in detail on page 168.

401, 402. The Romantic School in Germany. Professor Hoskins.

403, 404. Middle High German. Professors Hoskins and Priest.

### ROMANIC

507, 508. Advanced French Composition. Both terms, one hour a week. [Not given, 1918-1919.]

517, 518. History of French Sounds and Inflections.

Both terms, 3 hours a week. Professor Armstrong.

523. History of the Novel in France to the end of the seventeenth century. First term, 3 hours a week. Professor Vreeland.

525. Provençal. First term, 3 hours a week. [Not given, 1918-1919.]

526. The French National Epic. Second term, 3 hours a week. Professor Critchlow.

535. The Breton Epic. First term, 3 hours a week. Professor Buffum.

537. The Old French *Romans d'Aventure*. First term, 3 hours a week. Professor Critchlow.

539, 540. Technique of the Drama. Both terms, 3 hours a week. Professor Stuart.

545, 546. The French Language: Studies in Analysis and Method. Both terms, 3 hours a week. Professor Armstrong.

547. Old Spanish Readings. First term, 3 hours a week. Professor Marden.

551. Spanish Historical Grammar. First term, 3 hours a week. Professor Marden.

552. Spanish Epic Poetry. Second term, 3 hours a week. Professor Marden.

553, 554. Spanish Seminary: The *Reframero*. Both terms, 3 hours a week. Professor Marden.

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See also English 531, 532, History of Literary Criticism, Professor Harper.

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The following courses, though not regularly scheduled for 1918-1919, have been offered in previous years, and may, on application, be given:

528. Molière. A brief introductory study of the earlier comedy, with detailed critical study of some work of

Molière. Second term, 3 hours a week. Professor Koren.

531, 532. The Development of Literary Criticism in France. Both terms, 3 hours a week. Professor Gauss.

542. The Epic of Antiquity. Second term, 3 hours a week. Professor Critchlow.

543, 544. Romanticism. The origins and development of the romantic tendencies in French literature. Both terms, 3 hours a week. Professor Gauss.

555, 556. English Influence in the Eighteenth Century on French literature. Both terms, 3 hours a week. Professor Stuart.

The following courses, though designed for undergraduates in their senior year, are open to first year graduate students who, in addition to the regular work, fulfil certain specified requirements. They are described in detail on pages 169-170.

401, 402. The Romantic Movement. Professor Gauss.

403, 404. Old French. Professor Buffum.

405. French Literature of the XVIII Century. Professor Stuart.

406. French Literature of the XVI Century. Professor Vreeland.

407, 408. Italian Literature. Professor Gauss.

409, 410. Spanish literature. Professor Marden.

## MATHEMATICS

The Honors courses of senior year are designed to furnish instruction of such a grade as is usually required by students in the first year of their graduate work. These courses are:

403, 404. Differential Geometry. Both terms.

405, 406. Algebra. Both terms.

407, 408. Projective Geometry. Both terms. Professor Eisenhart.

409, 410. Analysis. Both terms. Professor Fine.

Owing to war conditions, no graduate courses in Mathematics are formally announced for 1918-1919. Such instruction will be provided as may suit the needs of any graduate students who may present themselves.

Each graduate course occupies three hours a week. A student who desires to engage in research will be particularly advised and assisted by that one of the professors under whose guidance he wishes to place himself.

509, 510. Theory of Functions of Real Variables.

518. Calculus of Variations.

537, 538. Differential Equations.

543, 544. Algebraic Functions.

531, 532. Analytical Mechanics, or Hydrodynamics and Elasticity. (Physics 505, 506.)

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The following courses have been given recently. It is the intention of the Department to repeat them periodically.

501. Theory of Substitutions. Elementary theory of substitutions. Groups of substitutions and rotations. Application of the theory of groups to the solution of algebraic equations. First term. Professor Gillespie.

502. Theory of Invariants. The theory of invariants and covariants of binary quantics, developed in the symbolic notation of Clebsch. Second term. Professor Gillespie.

504. Linear Groups and Invariants. Second term. Professor Veblen.

505. Theory of Elimination. First term. Professor Fine.

506. Galois Theory of Algebraic Equations. Second term.

507. Linear Differential Equations. Existence theorems.

Real variables: oscillation properties of second order equations, boundary value and expansion problems, related integral equations. Complex variables: the hypergeometric equation. First term.

508. Theory of Matrices. Second term. Professor Wedderburn.

509, 510. Theory of Functions of Real Variables. Dr. Pfeiffer.

511. Theory of Algebraic Numbers. First term. Professor Fine.

513, 514. The Theory of the Potential Function. Both terms, 3 hours a week. Dr. Alexander.

515. Differential Equations of Mathematical Physics. First term.

518. Calculus of Variations. Professor Eisenhart.

519. Partial Differential Equations. Existence theorems, and soluble forms with numerous exercises. First term. Professor Eisenhart.

521, 522. Projective Geometry. Advanced course. Both terms. Professor Veblen.

524. Analytic Projective Geometry. Invariants and covariants of binary forms. Clebsch's symbolic notation Theory of higher plane curves. Second term.

525, 526. Differential Geometry. An introductory course Both terms. Professor Eisenhart.

527, 528. Differential Geometry. An advanced course in special topics. Prerequisite: courses 525, 526. Lectures and conferences. Both terms. Professor Eisenhart.

529, 530. Infinitesimal Geometry. Historical readings from some of the memoirs of Monge, Dupin, Gauss, Weingarten, Darboux and Bianchi. Both terms. Professor Thompson.

531, 532. Analytical Mechanics, or Hydrodynamics and Elasticity. Professor Adams.

533, 534. Theory of Functions of a Complex Variable. Both terms. Professor Fine.

536. Vector Analysis. An introductory course. Second term. Professor Eisenhart.

537, 538. Differential Equations. Professor Boutroux.

539. Application of Analysis to the Theory of Numbers, with special reference to the Riemann Zeta function, and the distribution of prime numbers. First term.

541, 542. Integral Equations. Both terms.

543, 544. Algebraic Functions. Dr. Alexander.

545, 546. Theory of Sets of Points. Both terms. Professor Veblen.

547, 548. Conformal Representation and the Uniformization of Analytic Functions. Both terms.

549. Birational Transformations. First term. Dr. Alexander.

550. Elliptic Functions. Second term.

552. History of Analysis. Second term, 3 hours a week. Professor Fine.

## ASTRONOMY

501, 502. Theoretical Astronomy. Both terms, 3 hours a week. Professor Russell. [Not given, 1918-1919.]

503, 504. Practical Astronomy. Theory of instruments. Study of the determination of time, latitude, and azimuth; work with the equatorial on double stars, variable stars, and the sun. Both terms, 3 hours a week. Professor Dugan.

505. Theory and Method of Reduction of Photographic Star Plates. First term, 3 hours a week. Professor Russell. [Not given, 1918-1919.]

506. Spectroscopy. Second term, 3 hours a week. Professor Russell. [Not given, 1918-1919.]

507, 508. Celestial Mechanics. Both terms, 3 hours a week. Professor Russell. [Not given, 1918-1919.]

509, 510. Photometry. Research course. Progress of photometric investigation. Photometric observations with 23-inch equatorial and discussion of results. Both terms. Professor Dugan.

## PHYSICS

501, 502. Mathematical Theory of Electricity and Magnetism. Both terms, 2 exercises, about 5 hours a week. Professor McClenahan. [Not given, 1918-1919.]

505, 506 *a*. (Mathematics 531, 532.) Analytical Mechanics, including the theory of small oscillations and the theory of the potential. Both terms, 3 hours a week. Professor Adams. [Not given, 1918-1919.]

505, 506 b. (Mathematics 531, 532.) Hydrodynamics and Elasticity. Both terms, 3 hours a week. Professor Adams. [Not given, 1918-1919.]

508. The Kinetic Theory of Gases. Second term, 3 hours a week. Professor W. F. Magie.

511. Theory of Elastic Solids. First term, 3 hours a week. Professor Loomis. [Not given, 1918-1919.]

512. Theory and Practice of Exact Measurements. For students who have already had training in general laboratory practice. Second term, 3 hours a week. Professor Loomis.

509, 510. Light. Physical Optics. Both terms, 3 hours a week. Professor Trowbridge. [Not given, 1918-1919.]

514. Spectroscopy. Second term, 3 hours a week. Professor P. E. Robinson.

516. Atmospheric Electricity. Second term, 3 hours a week. Professor Cooke. [Not given, 1918-1919.]

518 *a*. The Mathematical Theory of Electric Waves and Oscillations. Second term, 3 hours a week. Professor Adams. [Not given, 1918-1919.]

518 *b*. Statistical Mechanics and Kinetic Theory of Gases. Second term, 3 hours a week. Professor Adams. [Not given, 1918-1919.]

519, 520. Heat and Temperature. Both terms, one lecture and 4 hours supervised laboratory work a week. Professor Northrup.

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The physical laboratory is open throughout the week to graduate students.

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For undergraduate courses in Physics also listed as graduate courses, see page 260.

## CHEMISTRY

501, 502. Advanced Quantitative Analysis and Research in Inorganic Chemistry. Professor McCay.

503, 504. Metallography. Professor D. P. Smith.

505, 506. Research in Metallography. Professor D. P. Smith.

507. Selected Topics in Advanced Inorganic Chemistry. Professor Foster.

510. Chemical Crystallography. Second term, 3 hours a week. Professor Van Nest. [Not given, 1918-1919.]

511, 512. Research in General Inorganic Chemistry. Professor Menzies.

513. Organic Chemistry. Lectures on stereochemistry and tautomerism, supplemented by conferences and reports. First term, 3 hours a week. Prerequisite courses: Organic Chemistry, Parts I, II, and III, or equivalent. Professor Neher.

514. Organic Chemistry. Lectures upon special topics, accompanied by the reading and discussion of the literature. Second term, 3 hours a week. Prerequisite courses: Organic Chemistry, Parts I, II, and III, or equivalent. Professor Neher.

515, 516. Advanced Laboratory work in Organic Chemistry. This course will consist of at least 9 hours of laboratory work a week. Professor Neher.

517, 518. Electrochemistry. Professor Hulett.

519. Chemistry of Colloids. First term, lectures and laboratory work, 3 hours a week. Professor Hulett.

520. Surface Energy and Colloids. Second term, 3 hours a week. Professor Hulett.

521. Photochemistry and the Chemistry of Radiant Energy. First term, 3 hours a week. Professor Taylor.

522. Physical Chemistry. Both terms, 3 hours a week. Professors Hulett and Taylor (second term). [Not given. 1918-1919.]

523, 524. Research in Physical Chemistry. Professor Hulett.

525, 526. Research in Electrochemistry. Both terms, hours to be arranged. Professor Hulett.

527, 528. Research in Physical Chemistry. Professor Taylor. [Not given, 1918-1919.]

SEMINARY IN PHYSICAL CHEMISTRY

Professor Hulett and Professor Taylor.

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For undergraduate courses in Chemistry also listed as graduate courses, see page 260.

## GEOLOGY

Every candidate for a higher degree in Geology is required to take the senior course in Practical Geology, 405,

406, during the first year of his attendance and to meet all the requirements of that course.

501, 502. Chemical Geology. Composition of the earth and the chemistry of geological processes. Both terms, 3 hours a week. Professor Smyth.

503, 504. Stratigraphy. Lecture, field, and laboratory work. Both terms, continuing through one or more years, 3 or more hours a week. Professor van Ingen. [Given as a research course, 1918-1919.]

505, 506. Petrology. A general study of the igneous, sedimentary, and metamorphic rocks. Laboratory, library, and field work continuing through one or more years, 3 or more hours a week. Professor Smyth.

507, 508. Mineralogy. The paragenesis and chemical relations of minerals, and the study of crystallographic types. Both terms, 3 or more hours a week. Professor Phillips.

509, 510. Geological History of Man. Lectures, reading, and discussion of original memoirs. Both terms, 3 or more hours a week. Professor Sinclair.

511, 512. (Biology 511, 512). Vertebrate Palaeontology. Lectures and laboratory work on the morphology and evolution of fossil vertebrates. Both terms, 3 or more hours a week. Professors Scott and Farr.

513, 514. Economic Geology. The metalliferous and nonmetalliferous mineral deposits of economic importance. Laboratory, library, and field work continuing through one or more years, 3 or more hours a week. Professor Smyth.

515, 516. Invertebrate Palaeontology. Morphology and evolution of the more important groups of extinct invertebrates. Lectures, laboratory, and field work.

Both terms, 3 or more hours a week. Professor van Ingen. [Given as a research course, 1918-1919.]

502. Physical Geography. The relations of geography and history. Second term, 3 hours a week. Professor Libbey. [Not given, 1918-1919.]

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For undergraduate courses in Geology also listed as graduate courses, see page 260. Courses so taken will be modified and augmented to suit the proficiency of the applicants. More detailed information regarding the graduate work in Geology may be obtained from the Secretary of the Department.

## BIOLOGY

501. Cytology. First term, 3 hours a week. Alternates with course 517. Professor Conklin.

502. Ontogenesis. Second term, 3 hours a week. Alternates with course 518. Professor Conklin.

503. Comparative Histology and Histogenesis. Lectures, laboratory and research work. First term, 3 hours a week. Professor Dahlgren.

504. Histology of the Kinetic and Nerve Tissues. Lectures, laboratory and research work. Second term, 3 hours a week. Professor Dahlgren.

505. Morphology of the Organ Systems of Vertebrates. First term, 3 hours a week. Professor McClure.

506. Special Problems of Vertebrate Anatomy. Second term, 3 hours a week. Professor McClure.

507. The Development of Plant Life. First term, 3 hours a week. Professor Rankin.

507. The Development of Plant Life. First term, 3 hours a week. Professor Rankin.

508. Systematic Botany of the Vascular Plants. Second term, 3 hours a week. Professor Rankin.

510. Theories of Evolution. Second term, 3 hours a week. Professor Scott.

511, 512. (Geology 511, 512.) Vertebrate Palaeontology. Both terms, 3 or more hours a week. Professor Scott.

513, 514. Physical Chemistry of the Cell. Both terms, 3 hours a week. Professor Harvey.

515, 516. Morphology and Physiology of the Central Nervous System. Dr. Paton. [Not given, 1918-1919.]

517, 518. Normal and Experimental Embryology. Both terms, 3 hours a week. Alternates with courses 501, 502. Professor Conklin.

519, 520. Preparation of Biological Compounds. Both terms, 3 or more hours a week. Professor Harvey.

521, 522. Research in Genetics. Both terms, 3 or more hours a week and extending through the summer season. Professor Shull.

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For undergraduate courses in Biology also listed as graduate courses, see page 261.

## COURSES IN PRINCETON THEOLOGICAL SEMINARY

The following courses in Semitics and Greek, given in Princeton Theological Seminary, are open to duly qualified students of Princeton University:

1. *Hebrew, 4 hours, both terms, Dr. Wilson and Dr. Allis. At 4-5 or 5-6 on Monday, Tuesday, Thursday and Friday. Open to Seniors and graduates.
2. Syriac or Arabic, 2 hours, both terms. Dr. Allis. Time to suit the class and Professor. Open to graduate students only. To be taken in combination with one of the following:
   (a) Hebrew Syntax, 1 or 2 hours, both terms. Dr. Wilson. One hour if only theoretical; 2 hours if practical also.

(b) Advanced Hebrew, 1 or 2 hours, both terms. Dr. Wilson or Dr. Allis.

(c) Textual Criticism, 1 or 2 hours, both terms. Knowledge of Greek and Latin required. Dr. Wilson.

3. General Introduction to the New Testament and Exegesis of the Epistle to the Galatians. Open to graduate students only. Two hours, both terms. Dr. Armstrong and Dr. Machen. (Thursday and Friday at 9:30). Together with Introduction to the Epistles of St. Paul. One hour, both terms. Thursday at 10:30. Dr. Armstrong.

## *UNDERGRADUATE COURSES ALSO LISTED AS GRADUATE COURSES

### PHILOSOPHY

401. Fundamental Problems of Philosophy. Senior course, first term, 3 hours a week. Professor Fite.

402. Present Philosophical Tendencies. Senior course, second term, 3 hours a week. Professor Spaulding.

405. History of Greek Philosophy. Senior course, first term, 3 hours a week. Professor Bowman.

407, 408. Ethics. Senior course, both terms, 3 hours a week. Professor Fite.

409. Platonism and Christian Theology. Senior course, first term, 3 hours a week. Mr. More.

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401. History and Psychology of Education. Senior course, first term, 3 hours a week. Professor McComas.

407. History of Modern Science. Senior course, first term, 3 hours a week. Professor Spaulding.

### HISTORY AND POLITICS

401. Constitutional History of England to the close of the

Middle Ages. Senior course, first term, 3 hours a week. Professor Munro.

402. Constitutional History of England since the Middle Ages. Senior course, second term, 3 hours a week. Professor Shipman.

403, 404. American History. Senior course, both terms, 3 hours a week. Professors Wertenbaker and C. R. Hall.

405. Municipal Government in the United States. Senior course, first term, 3 hours a week. Professor Ford.

406. Federal and State Government. Senior course, second term, 3 hours a week. Professor Ford.

407, 408. International Law and Diplomacy. Senior course, throughout the year, 3 hours a week. Professor Brown.

409, 410. Constitutional Interpretation and Administrative Law. Senior course, both terms, 3 hours a week. Professor Corwin.

421, 422. (Classics 421, 422.) Roman Law. Senior course, both terms, 3 hours a week. Professor Westcott.

ECONOMICS

409. Money and Banking. For graduate students electing this course a supplementary list of readings is provided, and a weekly conference is held. Senior course, first term, 3 hours a week. Professor Kemmerer.

410. Public Finance. For graduate students electing this course, a supplementary list of readings is provided, and a weekly conference is held. Senior course, second term, 3 hours a week. Professor Kemmerer.

ART AND ARCHAEOLOGY

401. Renaissance and Modern Sculpture. Senior course, first term, 3 hours a week. Professor Morey.

402. Greek Sculpture. Senior course, second term, 3 hours a week. Professor Morey.

405. The Revival of Painting in Italy. Senior course, first term, 3 hours a week. Professor Morey.

406. Northern Painting. Senior course, second term, 3 hours a week. Mr. Friend.

407, 408. Classical Architecture. Senior course, both terms, 3 hours a week. Professor Butler.

## CLASSICS

401. Lucretius. *De Rerum Natura.* Senior course, first term, 3 hours a week. Professor Basore.

413. Tacitus. The Histories. Senior course, first term, 3 hours a week. Professor Westcott.

416. Aristotle. Senior course, second term, 3 hours a week.

416*a*. Thucydides. (Alternate of Aristotle 416.) Senior course, second term, 3 hours a week.

421, 422. Roman Law. Senior course, both terms, 3 hours a week. Professor Westcott.

## SANSKRIT

401, 402. Elementary Sanskrit. Senior course, both terms, 3 hours a week. Professor Robbins.

## ENGLISH

401. Eighteenth Century Literature. Senior course, first term, 3 hours a week. Professor Root.

403. English Romanticism. Senior course, first term, 3 hours a week. Professor Spaeth.

404. English Literature of the Victorian Period. Senior course, second term, 3 hours a week. Professor Noyes.

405, 406. Old English. Senior course, both terms, 3 hours a week. Professor Hunt.

## MODERN LANGUAGES

### GERMANIC

401, 402. The Romantic School in Germany. Senior course, both terms, 3 hours a week. Professor Hoskins.

403, 404. Middle High German. Senior course, both terms, 3 hours a week. Professors Hoskins and Priest.

### ROMANIC

401, 402. The Romantic Movement. Senior course, both terms, 3 hours a week. Professor Gauss.

403, 404. Old French. Senior course, both terms, 3 hours a week. Professor Buffum.

405. French Literature of the Eighteenth Century. Senior course, first term, 3 hours a week. Professor Stuart.

406. French Literature of the Sixteenth Century. Senior course, second term, 3 hours a week. Professor Vreeland.

407. Italian Literature. Senior course, both terms, 3 hours a week. Professor Koren.

409, 410. Spanish Literature. Senior course, both terms, 3 hours a week. Professor Marden.

## MATHEMATICS

403, 404. Differential Geometry. Senior course, both terms, 3 hours a week. Professor Eisenhart.

405, 406. Algebra. Senior course, both terms, 3 hours a week. Professor Fine.

407, 408. Projective Geometry. Senior course, both terms, 3 hours a week. Professor Eisenhart.

409, 410. Analysis. Senior course, both terms, 3 hours a week. Professor Fine.

PHYSICS

411, 412 *c*. Electricity and Magnetism. Senior course, both terms, 3 hours a week. Professor Adams.

413, 414 *d*. Theoretical Physics. (a) Thermodynamics; (b) The Electron Theory. Senior course, both terms, 3 hours a week. Professors W. F. Magie and Compton.

415, 416 e. Experimental Physics: Electricity and Magnetism. Senior course, both terms, 3 hours a week. Professor Northrup.

CHEMISTRY

402. Quantitative Analysis, Part III. Senior course, second term, 3 hours a week. Professor McCay.

404. Organic Chemistry, Part III. Senior course, second term, 3 hours a week. Professor Neher.

406. Physical Chemistry, Part III. Senior course, second term, 3 hours a week. Professor Hulett.

410. Advanced Inorganic Chemistry. Senior course, second term, 3 hours a week. Professor Menzies.

GEOLOGY

401, 402. Historical Geology. Senior course, both terms, 3 hours a week. Professors Scott and van Ingen.

403. Structural and Dynamic Geology. Senior course, first term, 3 hours a week. Professor Smyth.

404. Economic Geology. Senior course, second term, 3 hours a week. Professor Smyth.

405, 406. Practical Geology. Senior course, both terms, 3 hours a week. Professor van Ingen.

407. Crystallographic Mineralogy. Senior course, first term, 3 hours a week. Professor Phillips.

408. Optical Mineralogy. Senior course, second term, 3 hours a week. Professor Phillips.

## BIOLOGY

401. Comparative Anatomy of Vertebrates. Senior course, first term, 3 hours a week. Professor McClure.

402. Vertebrate Embryology. Senior course, second term, 3 hours a week. Professor McClure.

403. Histology. Senior course, first term, 3 hours a week. Professor Dahlgren.

404. Advanced Histology. Senior course, second term, 3 hours a week. Professor Dahlgren.

406. Vertebrate Palaeontology. Senior course, second term, 3 hours a week. Professors Scott.

407, 408. General Physiology. Senior course, both terms, 3 hours a week. Professor Harvey.

409, 410. Genetics. Senior course, both terms, 3 hours a week. Professor Shull.

## ASTRONOMY

401, *402 f.* Celestial Mechanics. Senior course, both terms, 3 hours a week. Professor Russell. [Not given, 1918-1919.]

## DIRECTORS OF THE SEMINARIES
## 1918-1919

*Philosophical Seminary*
Professor Longwell

*History and Politics Seminary*
Professor Shipman

*Economics Seminary*
Professor Kemmerer

*Classical Seminary*
Professor D. R. Stuart

*English Seminary*
Professor Harper

*Romance Seminary*
Professor Marden

*Germanic Seminary*
Professor Blau

*Mathematical Seminary*
Professor Eisenhart

# DEPARTMENT OF MUSIC

ALEXANDER RUSSELL, MUS.B., *Director of Music and University Organist*

The aim of the Department of Music is to cultivate a knowledge of music among the students of the University by means of lectures on musical subjects, recitals, and by the encouragement of student activities in music, particularly as evidenced in the student choir (the Chapel Choir), the Glee Clubs, the student orchestra (Orphic Order), and other student musical organizations.

Emphasis is laid upon the development of taste and appreciation rather than upon the technical side of music. The courses offered are planned along lines of general academic training, and it is not the aim of the Department to develop professional musicians, but rather trained listeners of music, men who shall learn to understand and appreciate music in the same degree that they appreciate and understand other arts.

At the same time, students who evidence special talent in any particular phase of music (as singers, pianists, organists, violinists, or in composition, etc.) will be given the opportunity to pursue studies in these branches, by means of special arrangements with the head of the Department.

The following extra-curriculum courses are at present open to all students without tuition fees:

1. A course of weekly Saturday afternoon organ recitals on the Henry C. Frick organ in Procter Hall. From Thanksgiving to Easter. Programs covering the literature of music from ancient to modern times.

2. A course in the History and Appreciation of Music (from the standpoint of the listener), one hour weekly,

from October to June. Illustrated by instrumental and vocal music. No knowledge of music necessary for entrance to this course.

3. A course in the Harmony and Theory of Music. Advanced and elementary classes. Students taking this course will be required to pass a preliminary examination in the rudiments of music. Weekly, one hour.

4. Practice in orchestral playing in the Orphic Order. Open to students able to play an orchestral instrument. Weekly, one hour, October to May.

5. Practice in military band playing in S. A. T. C. Band. Two hours weekly.

6. Practice in singing in Chapel Choir. Number of members limited by conditions. Admission upon qualification, according to vacancies open.

7. Preceptorial conferences in organ and piano playing. Open to students possessing necessary qualifications.

# THE UNIVERSITY LIBRARY

ERNEST CUSHING RICHARDSON, PH.D., *Librarian*
HENRY BARTLETT VAN HOESEN, PH.D., *Assistant Librarian*
ANSON ELY MORSE,* PH.D., *History Reference Librarian*
HOWARD SEAVOY LEACH,* A.M., *Substitute Reference Librarian*
CHARLOTTE MARTINS, *Superintendent of Purchase*
GEORGE MANN PECK, A.B., *General Assistant in Charge of Special Libraries, Substitute Reference Librarian*
WALTER RUE COTTRELL, *Superintendent of Circulation*

CLAUDE H. ANDERSON, A.B., LL.B., *Municipal Reference Librarian*
JANE WRIGHT, *Art Reference Librarian*
REBECCA SARAH CAWLEY, *Department Librarian, Guyot Hall*
FLORENCE LOUISE HURD, *Department Librarian, Economics*

## THE UNIVERSITY LIBRARY

The Library began with the College, Governor Belcher, the patron of the College, directing his especial attention and interest to it, and leaving to it his collection of 474 volumes. When the first catalogue was printed in 1760 the Library consisted of about 1,300 volumes. It was decimated during the Revolution and in 1796 numbered only 2,300 volumes. It was partly destroyed by fire in 1802. In 1816 it numbered 7,000 volumes; in 1839, 8,000; and in 1850 it had advanced to 9,313 volumes. In 1868 it contained but 14,000 volumes, without separate building or librarian.

### THE CHANCELLOR GREEN LIBRARY

In 1868 the Elizabeth Fund for the purchase of books was created by John C. Green, Esq., and in 1872-73 he erected a library building, named in honor of Chancellor

* Absent.

Green. The Chancellor Green Library building is the working library of the University for undergraduates. It contains the standard and latest works, as well as reference books, in all departments. In addition it contains the following special collections:

*The Charles Ewing Green Alcove.* The alcove facing the public entrance to the Chancellor Green Library has been set aside as a memorial to the late Charles Ewing Green '60. It contains a memorial tablet erected by the late Mrs. Charles E. Green, and a select library of classical philology.

*The Class of 1878 Library* of Chemistry, established and endowed in 1889.

*The Class of 1883 Library* of Political Science and Jurisprudence, founded and endowed in 1893.

*The Class of 1889 Library* of American History, established and endowed in 1899.

*The Bower Collection,* a selection of books mainly on History and Literature from the library of the late Laurance Foster Bower '96.

### PYNE LIBRARY

Provision was made on the occasion of the Sesquicentennial by the late Mrs. Percy Rivington Pyne, for a new building with a capacity of 1,200,000 volumes gross and shelving at present for about 750,000, besides administration rooms, twenty rooms for instruction and research, a room for the exhibition of rare books, and a series of rooms for special reading and reference work in History, Political Science and Social Sciences. This building forms a hollow quadrangle of about 160 feet square, connected with the Chancellor Green Library by a delivery room, of 50 by 20 feet, and is fitted with modern improvements. On the exterior of the western tower gateway are statues of Presidents Witherspoon and McCosh, James Madison, Class of

1771, fourth President of the United States, and Oliver Ellsworth, Class of 1766, second Chief Justice of the United States Supreme Court.

### THE CENTRAL COLLECTION

The general collection, which occupies the united buildings, consists of 405,722 volumes, including deposits, and 104,631 unbound periodicals and pamphlets. It includes, in addition to those already mentioned, the following special collections:

### SPECIAL COLLECTIONS

*The Autograph-Manuscript Collection,* relating chiefly to the history of the University. This includes the Pyne-Henry collection, the Abbott papers, the Hunt papers, the Miller papers, the Maclean papers, recently presented by the Misses Maclean, and miscellaneous.

*The Morgan Collection of Virgils,* presented by Junius S. Morgan, '88.

*The Pierson Civil War Collection,* presented by John S. Pierson '40. 6,720 volumes and several thousand unbound pamphlets and clippings.

*The Paton Spanish War Collection* of newspapers and magazines, presented by William Agnew Paton, Esq.

*The European War Collection.*

*The Strong Collection* of posters, pamphlets, and bound volumes of clippings on the European War, and of war currency, presented by Benjamin Strong, Esq. (hon. 1918.)

*The Princeton University Collection,* including the large collection of Princetoniana presented by Professor William Libbey, '77, the Witherspoon collection, and the Cleveland collection.

*The Class of 1875 Library* of English Poetry and Drama.

*The Mrs. J. O. H. Pitney Collection* of books on Inter-

national Law and Diplomacy, presented by Mrs. John Oliver Halsted Pitney.

*The Music Library,* founded by Rudolph E. Schirmer, '80, John W. Garrett, '95, and Lewis F. Pease, '95.

*The Garrett Collection of Oriental Manuscripts,* consisting of about 2,400 manuscripts, chiefly in Arabic, but including 334 manuscripts in twenty-five other languages, deposited in the University Library, and including books on law, medicine, mathematics, natural sciences, poetry, history, biography, geography, travels, rhetoric, grammar, and lexicography, as well as works on the Mohammedan religion and the exegesis of the Koran.

*The Collection of Cuneiform Documents,* consisting of approximately 1,200 items founded by M. Taylor Pyne, '77, Junius S. Morgan, '88, and others; and enlarged by gifts of the late Professor R. E. Brünnow, Robert Garrett, '97, Cyrus H. McCormick, '79, Russell W. Moore, '83, M. Taylor Pyne, '77, Wilfred J. Funk, '09, George W. Gilmore, '83, and others.

*The Willard Porter Law Library,* presented by Mrs. Willard Hall Porter and her son, W. H. Porter, Jr., 1903.

*The Pliny Fisk Statistical Library,* presented by Pliny Fisk '81.

*The Samuel Miller Collection,* presented by Samuel Miller Breckinridge Long, 1903, in memory of Judge Samuel Miller Breckinridge, '50.

*The Patterson Collection* of rare editions of Horace and other rare and choice books, presented by Robert W. Patterson, '76.

*The Bergen Collection* of rare and choice books, chiefly modern, presented by the Rev. G. S. Bergen in memory of his son, Ernest G. Bergen, '95.

*The Ivy L. Lee Collection,* on Russia, presented by Ivy L. Lee, '98.

*The Whig Hall Collection,* presented by Whig Hall.

*The Clio Hall Collection,* presented by Clio Hall.

*The Philadelphian Society Collection,* presented by the Philadelphian Society.

*The Nelson Collection of New Jerseyana;* 2,520 volumes and pamphlets relating to the history of New Jersey, presented by the Hon. William Nelson, (hon. 1896.)

*The Collection of New Jersey Imprints,* presented by the Hon. William Nelson, (hon. 1896.)

*The Collection of Books for the Blind,* English, Greek, and Latin, printed in American Braille and New York Point.

*The Paton Collection* of Oriental Philology and History (See "Semitic Seminary" under "Seminary and other Special Libraries").

*The Van Deusen Collection of Railroadiana,* deposited by E. Van Deusen, Esq.

*The Photostat Collection* of rare books in photostat copy.

*The John W. Garrett European War Collection,* French, British, and Italian War Posters, together with military correspondence, forms, etc., presented by John W. Garrett '95.

*The Lytle Collection of European War Relics,* collected by Ridgeley Lytle, '13.

*The Robertson Collection of European War Relics,* deposited by Malcolm Robertson, '15.

Special collections, other than books or manuscripts, are:

*The Garrett Collection of Coins,* deposited in the University Library. This collection contains an unusually fine series of American coins, as well as specimens from many foreign countries and many commemorative medals.

*The Hutton Collection of Death Masks,* consisting of 81 masks, presented by the late Laurence Hutton, (hon. 1897.)

*The Hutton Memorial Collection,* consisting of 801 books, together with autographed portraits, paintings, etc., from the library of the late Laurence Hutton, (hon. 1897,) left by him to trustees to be put in some safe place for a permanent memorial and presented by them to the University.

*The Meirs Collection of Cruikshankina,* consisting of 894 volumes, with 695 broadsides, original water color drawings, oil paintings, autograph letters, etc., presented by Richard W. Meirs, '88.

### SEMINARY AND OTHER SPECIAL LIBRARIES

Certain rooms in the Pyne Library Building are available for the use of seminaries. Several have been assigned and provided with special libraries, partly by loan from the main collection, but chiefly by special endowment and purchase. The following have been established:

*The Philosophical Seminary.* Founded by Mrs. C. B. Alexander (ethics), and by the Class of 1882 (logic and metaphysics). Location: southeast corner, first floor.

*The Economics Seminary.* Founded by the Class of 1888. Location: southeast corner, first floor, and fifth floor. (See also "The Pliny Fisk Statistical Library," under "Special Collections.")

*The Political Seminary.* Founded by various alumni and friends. Location: southeast corner, second floor.

*The Classical Seminary.* Founded by a friend of the University. Location: southwest corner.

*The Latin Pro-Seminary.* Location: Room 43, McCosh Hall.

*The English Seminary.* Founded and supported by Charles Scribner, '75. Location: northwest corner, first floor.

*The Romance Seminary.* Founded by the Class of 1890. Location: southwest corner, first floor.

*The Mathematical Seminary.* Founded by the late John L. Cadwalader, '56; Professor M. Allen Starr, M.D., LL.D., '76; David B. Jones, '76; Thomas D. Jones, '76; Chandler W. Riker, '76; and the Hon. Adrian Riker, '79. Location: northwest corner, second floor.

*The Historical Seminary.* Founded by Mr. and Mrs. M. Taylor Pyne in memory of Robert Stockton Pyne. Location: southeast corner, second floor.

*The Germanic Seminary.* Founded by the Class of 1891, and including the library of the late Professor Willard Humphreys. Location: southeast corner, first floor.

*The Semitic Seminary,* including the Paton Collection of Oriental Philology and History. Location: north stack, west tower, fifth floor, and room adjoining.

### DEPARTMENT LIBRARIES

These are libraries selected from the general collection, and kept in proximity to the corresponding laboratories. The following are organized:

*Art;* the Marquand Collection, presented by Professor Allan Marquand, '74. Art Museum.

*Astronomy.* Working Observatory.

*Biology* (including Botany and Zoölogy); founded by Charles W. McAlpin, '88, and supported largely by Mr. McAlpin and the "Frank Hartley Memorial Fund." Guyot Hall.

*Geology and Palaeontology.* Guyot Hall.

*Engineering;* including the Class of 1878 Library of Engineering. School of Science, second floor.

*Physics;* the Brackett Library, presented by the late Stephen S. Palmer, David B. Jones '76 and Thomas D. Jones '76. Palmer Physical Laboratory.

*R. O. T. C.*—Books on Military Science, placed here by the U. S. Government. The Gymnasium.

### USE OF THE LIBRARY

The Library is open from 8 A. M. to 10 P. M. on week-days and, for reference use, from 12 M. to 5 P. M. on Sundays during term time. In vacation it is open on week days from 9 A. M. to 1 P. M.

Books may be drawn by officers and students of the University and Theological Seminary, and by any person properly introduced. The number of books which may be taken is limited to three in the case of undergraduates, with the exception of seniors, who may take five. Officers, Fellows, and graduate students may take any reasonable number. Books may be kept by undergraduates for two weeks, by Fellows and graduate students for four weeks, and by officers for any reasonable time. All books may be renewed when due, unless wanted by other readers.

Fines are charged at the rate of two cents a day on all books kept over time. If an overdue book is wanted at the Library it may be sent for and a charge of ten cents made for messenger. Postal cards are sent as a reminder of books overdue only when the books are wanted by others. No books may be drawn while there are unpaid fines.

A pamphlet manual of rules and directions is issued free of charge.

### THE HALL LIBRARIES

The American Whig and Cliosophic Societies and the Philadelphian Society have turned over a large part of their books to the University Library, but each has in its own building a convenient working library.

### THE THEOLOGICAL SEMINARY LIBRARY

Students of the University are allowed to use the library of the Princeton Theological Seminary, which contains 106,000 volumes, distributed in two buildings. The one, the

general library, is open for consultation and loan of books from 9 A. M. to 5 P. M. and from 7 to 10 P. M. on week-days, except Saturday, when the hours are from 9 A. M. to 1 P. M. and from 7 to 10 P. M. The other, the reference library, is open every week-day from 9 A. M. to 5 P. M., and from 7 to 10 P. M.

SUMMARY OF LIBRARIES

| | |
|---|---|
| University Library | 405,722 |
| Hall Libraries | 5,000 |
| Theological Seminary Library | 106,000 |
| Total (exclusive of pamphlets and duplicates). | 516,722 |

# PART VII

# UNITED STATES SCHOOL OF MILITARY AERONAUTICS

# UNITED STATES SCHOOL OF MILITARY AERONAUTICS

Under contract with the Government, Princeton University is maintaining a United States School of Military Aeronautics.

## ADMINISTRATION AND FACULTY

JOHN GRIER HIBBEN, PH.D., LL.D., LITT.D., *President of Princeton University.*
GEORGE C. WINTRINGER, E.E., *Secretary of Business Administration, Princeton University.*
HENRY GREEN DUFFIELD, *Treasurer of Princeton University.*

---

J. MCCLINTOCK, Major, A. S., S. C., *Commandant.*
GILBERT VAN INGEN, *President of Academic Board.*
BENJAMIN F. HOWELL, *Vice President of Academic Board.*
SAMUEL MIXTER, 1st Lieut., A. S., S. C., *Adjutant.*
C. W. HANDY, Capt., A. S., A., *Personnel Adjutant.*
GEORGE D. COLEMAN, 2nd Lieut., A. S., S. C., *Supply Officer.*
W. G. MCMURRAY, 1st Lieut., Q. M. C., *Disbursing Officer.*
FRANCIS E. PRESTLEY, Capt., M. C., *Surgeon.*

## HEADS OF DEPARTMENTS

PAUL R. TURPIN, Capt., A. S., A., *Military Studies.*
ROBERT HAMPTON, JR., 1st Lieut., A. S., A., *Signalling.*
ELSTON H. BERGEN, JR., 1st Lieut., A. S., S. C., *Gunnery.*
ROSWELL DAVIS, *Airplanes.*
JAMES O. MURRAY, 2nd Lieut., A. S., S. C., *Engines.*
EDWARD SAMPSON, 1st Lieut., A. S., S. C., *Observation.*

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The curriculum provides for twelve weeks' intensive instruction in the subjects indicated by the departments, which are considered essential to the preliminary training of an aviator.

The total number of hours of instruction in the course is 438, being approximately thirty-seven hours per week.

No instruction is given in practical flying, the cadets' training being only in those subjects which can be taught on the ground. All cadets are required to pass satisfactorily written examinations in each subject.

Failure to meet the requirements of the course results in the cadet being relieved from further duty as candidate for commission, and either discharged from the Service or transferred to the Air Service as a Private.

All cadets are enlisted in the Air Service and are at all times under strict military discipline.

At present the instruction is given in parts of Palmer, McCosh and Guyot Halls, and two cantonment type buildings for housing the Departments of Airplanes and Engines respectively have been constructed below Guyot Hall. Patton, Brown and Cuyler Halls are used as barracks. A room in Brokaw Memorial is used by the cadets as a recreation room, and certain facilities of the Gymnasium, Murray-Dodge, and portions of the University Library are open to the cadets at certain times.

The cadets are messed at the University Dining Halls.

# PART VIII

## UNITED STATES NAVY OFFICER MATERIAL SCHOOL FOR THE PAY CORPS

# UNITED STATES NAVY OFFICER MATERIAL SCHOOL FOR THE PAY CORPS

Under contract with the Government, the University has placed the buildings and grounds of the Graduate College at the disposal of the Navy Department for an Officer-Material School for the Pay Corps.

The School is under the command of Rear Admiral C. F. Goodrich, U. S. N. The staff consists of Professional Instructors, Line Instructors, Medical Officers, and Supply Officer.

## ADMINISTRATION AND STAFF

JOHN GRIER HIBBEN, PH.D., LL.D., LITT.D., *President of Princeton University.*

GEORGE C. WINTRINGER, E.E., *Secretary of Business Administration, Princeton University.*

HENRY GREEN DUFFIELD, *Treasurer of Princeton University.*

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REAR ADMIRAL C. F. GOODRICH, U. S. N., *Commandant.*
PAYMASTER W. G. NEILL, U. S. N.
PAYMASTER A. L. HUESTIS, U. S. N.,
PAYMASTER HARRY ATWOOD, U. S. N.
SURGEON D. F. LUBY, U. S. N. R. F.
PAYMASTER M. L. BROWN, U. S. N. R. F.
ASS'T DENTAL SURGEON C. A. ANGONNET, U. S. N. R. F.
ASS'T SURGEON C. F. M. BUTTERFIELD, U. S. N. R. F.
ASS'T PAYMASTER W. S. SELLERS, U. S. N. R. F.
ASS'T PAYMASTER F. M. RANSOM, U. S. N. R. F.
ASS'T PAYMASTER E. B. RUHL, U. S. N. R. F.
ASS'T PAYMASTER E. R. COLLIER, U. S. N. R. F.
ASS'T PAYMASTER W. H. POTTER, JR., U. S. N. R. F.
ASS'T PAYMASTER E. B. STEVENSON, JR., U. S. N. R. F.
ASS'T PAYMASTER M. C. ROOP, U. S. N. R. F.
ENSIGN M. E. MONTGOMERY, TEMPORARY U. S. N.
ENSIGN H. C. MONROE, TEMPORARY U. S. N.
ASS'T PAYMASTER R. M. LITTLE, U. S. N. R. F.
PAY CLERK B. O. KILROY, U. S. N.

The student body is divided into two battalions of two hundred and fifty men each. By this arrangement, one battalion is admitted and one battalion discharged each month. Each battalion has its own corps of instructors, consisting of a Battalion Instructor and four assistants, and occupies its own classrooms, reading room and quarters.

An intensive course of instruction covers a period of eight weeks:

(a) First month.
  (1) The Ship's Store.
  (2) Clothing and Small Stores.
  (3) The Commissary Department.

(b) Second month.
  (4) Pay Rolls and Money Accounts.
  (5) The General Supply System.

(c) Additional Instruction:
  Infantry drill.
  Seamanship.
  Ordnance.
  First Aid.

All students are quartered and messed at the Graduate College. The daily routine requires their presence at the building at all times except during the recreation period from 5:00 P. M. to 6:20 P. M., except on Wednesdays, when this period of recreation is extended from 2:50 P. M. to 6:20 P. M. Week-end leave is granted from 12:30 P. M. Saturday until 8:30 P. M. Sunday to those who desire it, provided the work of the school permits.

# PART IX

## GENERAL REGULATIONS, RELIGIOUS WORSHIP AND ACTIVITIES, PUBLIC LECTURES, INFIRMARY, UNIVERSITY STORE, UNIVERSITY PRESS

# GENERAL REGULATIONS

## TERMS AND VACATIONS

The Annual Commencement takes place on the Tuesday preceding the last Wednesday but one in June. The University opens on the Tuesday thirty-eight weeks preceding the date of the Annual Commencement.

The formal opening exercises of the next academic year (1919-1920) are expected to take place on September 23, 1919. The terms and vacations cannot yet be announced.

The Baccalaureate address to the graduating class is delivered on Sunday of Commencement week.

The Class Day exercises of the graduating class and the annual meetings of the Literary Societies are held on Monday of Commencement week. The alumni trustee election and the annual alumni luncheon are held on Commencement Day.

## REGULATIONS CONCERNING REGISTRATION AND THE CHOICE OF ELECTIVES

### RULES FOR REGISTRATION

At the beginning of the academic year each undergraduate student shall report in person at the Registrar's Office before 3 p. m. on the Tuesday on which the University opens, and register his full name, home address, and Princeton address.

In every case of neglect or delay in registration three absences will be recorded against the student for each day that the registration is delayed. Serious cases will be punished by putting the student on probation, by suspension, or otherwise, as the Faculty may determine.

### CHOICE OF ELECTIVES

It is very desirable to obtain from each student his choice of electives as early as possible, so that the rolls of the elective classes may be made out before the opening of the term. The students are therefore requested to report to the Registrar their choice of electives for the first term of the next academic year (1919-1920) on or before the 22nd of May. Changes which the student desires to make in his choice may be made by letter to the Registrar in the summer vacation. No changes will be allowed after the beginning of the academic year.

The choice of electives for the second term of the current academic year must be reported to the Registrar on or before the 29th of January. No changes will be allowed after the 12th of February.

The penalty for delay in reporting the full list of electives for the term shall be the record of one absence each day for each elective not reported until the list is complete; this delay to be reckoned from the registration at the beginning of the academic year or from the 29th of January. Serious cases shall be punished more severely as the Faculty may determine. If the student enter any elective class after exercises with that class have been held, he shall be reported by the instructor as absent from those exercises.

## REGULATIONS CONCERNING ATTENDANCE

1. The Dean of the College has charge of all matters pertaining to attendance on chapel and class exercises. Office hours from 2 to 3 p. m. daily except Saturday, in Nassau Hall.

2. Every undergraduate student in residence at the University is required to attend at least one-half of the Sunday Chapel services each quarter, unless excused by the Presi-

dent or the Dean of the College. Failure to comply with this rule will render him liable to suspension.

3. In case of persistent neglect to attend Sunday Chapel services the Dean of the College has authority to compel attendance at specified times and under specified conditions, under penalty of suspension.

4. Juniors who in their sophomore year maintain a general standing of first or second group, seniors who in their junior year maintain a general standing of first or second group, and junior and seniors who are regularly admitted to candidacy for final special honors, are excused from compulsory attendance upon class exercises as long as they maintain a general standing of first or second group, or remain eligible for final special honors.

5. Every other undergraduate student is required to attend the scheduled exercises of his class. A student who for any cause incurs 40 absences in any term or in any two successive terms must take an extra course of three hours a week in the next term. All absences above 40 will be counted toward an additional extra course. In case of an unavoidable absence for a prolonged period, the application of this rule may be modified by the Faculty upon recommendation of the Dean of the College.

6. If any senior becomes liable for an extra course through absences incurred in the second term, the awarding of his degree shall be deferred until after Commencement. Exemption from the application of this rule may be granted by the Faculty upon the recommendation of the Dean of the College.

7. Any undergraduate student, except those excused from compulsory attendance in accordance with paragraph 4, who absents himself from any class exercise either immediately before or immediately after any vacation during the academic year, shall be placed upon probation if, in the

opinion of the Dean of the College, his absence has not been caused by necessity. A student so placed upon probation shall be deprived of the privilege of engaging in any extra curriculum activity requiring absence from any class exercise during his period of probation, and any student thus placed upon probation who absents himself unnecessarily from any class exercise during his period of probation shall be liable to suspension or dismissal. Every absence incurred before or after vacations shall be counted as a single absence and shall be charged against the gratuity.

8. Flagrant cases of absence will necessitate immediate withdrawal from the University.

## MODE OF CONDUCTING EXAMINATIONS

All written examinations and written recitations are conducted under the present system. A student is not watched during an examination by an officer of the University, but he is required to write on his paper a pledge that he has not been guilty of any dishonesty or irregularity in connection with the examination.

The administration of the honor system is in the hands of a student committee, by whose rules it is the recognized duty of every student to report to the committee any evidence of dishonesty in examination that may come under his observation. If after investigation of such evidence the committee finds a student guilty of dishonesty, it reports his case to the Faculty with a recommendation that he be finally dismissed from the University.

## REGULATIONS RESPECTING CONDITIONS AND ABSENCE FROM EXAMINATIONS

### 1. *Conditions*

At the end of each term reports are made to the Registrar of the standing of every student in the courses which he

has taken. If the student's work in a course is above the passing grade he is reported in one of the five groups described on p. 296. If this work is not above the passing grade he is reported as conditioned in the course.

A student is conditioned in a course:

(1) If he fails to satisfy the requirements of the course. In determining his failure the work of the term as well as the examination is taken into account.

(2) If he is excluded from the examination by a Department on recommendation of a preceptor, because his work done in the term with the preceptor has been unsatisfactory.

(3) If he is excluded from the examination by a Department on recommendation of a laboratory instructor, because his work done in the term with the laboratory instructor has been unsatisfactory.

(4) If he is absent from the examination, for any cause, provided his term grade in the course is below the passing grade.

(5) If he is absent from the examination, for any cause, except illness or some equally compelling reason, even if his term grade in the course is above the passing grade. In cases of justifiable absence the examination may be postponed, provided his term grade in the course is above the passing grade, if the necessary absence occurs (1) at the time of the examination; (2) or immediately preceding it; (3) or has extended over a considerable portion of the term. Whenever practicable, permission to postpone an examination must be obtained in advance from the Dean of the Faculty or the Registrar. Such a postponed examination must be taken at the time set for the removal of conditions by examination. The results of this examination are to be combined with the record of the term's work to determine whether or not the student has satisfied the requirements of

the course. If the requirements of the course are not satisfied, the student is conditioned in the course as if he had taken the regular examination.

*Note.*—In case of absence covering more than half a term, the term will not be counted toward fulfilling the requirements for graduation. In case of protracted absence covering less than half a term the student's schedule for the term will generally be reduced, and he will not be allowed to take examinations in all his courses.

## II. *Removal of Conditions*

A. Conditions are of two classes:

(1) Class F (Failure in the course), in which the failure is such that the condition may be removed by examination.

(2) Class R (Repeating of the course), in which the failure is so serious that the condition may not be removed by examination. Such a condition will be imposed when a student whose work during the term has been below the passing grade fails in the final examination, but no student whose work during the term has been above the passing grade shall be given a Class R condition because of failure in the final examination.

*Note.*—A condition incurred by exclusion from the examination is of the R Class. A condition incurred by absence from the examination is of the F Class, if the term grade is above the passing grade. If the term grade is below the passing grade, the instructor in charge of the course shall report whether the condition is of the F Class or of the R Class.

B (1) Examinations for the removal of conditions of the F Class will be held for all students in September in the two weeks beginning on the third Monday before the opening of the academic year. Conditions which are not removed at this time are transferred to the R Class.

Examinations for the removal of conditions of the F Class incurred by seniors in either term of senior year will be held in the senior vacation.

(2) A condition of the R Class may be removed only by taking again and satisfactorily completing the course in which the condition was incurred or by taking and satisfactorily completing a course which is a lawful substitute for the one in which the condition was incurred. If a substitute is desired, permission to take it must be obtained from the Registrar before the opening of the term.

a. There is no lawful substitute for a required course. The course in which the failure occurred must be taken again.

b. Any one course in a group of which one or more courses must be chosen is a lawful substitute for any other course of that group.

c. Any free elective is a lawful substitute for a free elective.

C. A student who, after the close of the September examinations, has any conditions remaining against him or is obliged to take an extra course because of absences or an entrance condition, shall at once proceed to remove the conditions or meet the obligation of the extra course by taking the requisite number of courses. His schedule of courses must be approved at the opening of the year by the Registrar. The courses taken for this purpose will displace an equal number of advanced courses, so that his schedule shall contain the same number of courses as that in the regular schedule of his class.

III. *Failure Resulting in Loss of Membership in the University*

(1) A student who has conditions at the end of a term covering half the work of that term, is dropped from the University.

(2) A student of any of the three upper classes who in the two terms of an academic year has incurred conditions of the R Class covering nine hours or more, or who, by failure to remove conditions of the F Class in September, has at that time conditions of the R Class amounting to nine hours or more, is dropped from the University.

(3) A member of the freshman class who in the two terms of an academic year has incurred conditions of the R Class amounting to twelve hours or more, or who, by failure to remove conditions of the F Class in September, has at that time conditions of the R Class amounting to twelve hours or more, is dropped from the University.

(4) A student whose deficiencies, resulting from the displacement of regular courses by courses which have been taken to remove conditions of the R Class, or by courses taken because of absences or an entrance condition, amount to five or more courses, is dropped from the University.

## IV. *Terms of Readmission*

A student who has been dropped from the University for failure in his studies and who wishes to re-enter must make application to do so through the Registrar. If his application is granted, and he re-enters the University, he will be on trial for one term, this term to be terminable at any time by the Faculty if his record is unsatisfactory.

(1) A student of the Department of Civil Engineering dropped at the end of the first term is required to leave Princeton for at least a term. After a term's absence, if his application for readmission is granted, he may be admitted to the next lower class at the beginning of the academic year.

(2) A student of any other department dropped at the end of the first term is required to leave Princeton for a

least a term. After a term's absence, if his application for readmission is granted, he may be admitted:

(*a*) to the next lower class at the beginning of the academic year.

(*b*) or as a qualifying student, with an arrangement of studies which will make it possible for him to meet the requirements for graduation at some time after the graduation of his class.

(3) A student of the Department of Civil Engineering dropped at the end of the second term may apply for admission to the next lower class. If his application is granted he may enter the next lower class at the beginning of the next academic year, or, with the permission of the Committee on Examinations and Standing, he may leave Princeton for a term, and enter the next lower class at the beginning of the second term of the next academic year.

(4) (*a*) A student of any other Department dropped at the end of the second term may apply for admission to the next lower class. If his application is granted he may enter the next lower class at the beginning of the next academic year.

(*b*) If he wishes to continue his studies as a qualifying student, he is required to leave Princeton for at least a term. After a term's absence, if his application for readmission is granted, he may be admitted as a qualifying student, with an arrangement of studies which will make it possible for him to meet the requirements for graduation at some time after the graduation of his class.

## V. *General Regulations Concerning Conditioned and Readmitted Students*

(1) A student who is under conditions is not allowed to take in any term a larger number of courses than that constituting the regular work of the term. Courses taken to

remove conditions of the R Class or because of absences or an entrance condition become a part of the regular schedule, and displace more advanced courses which might otherwise be taken. An equivalent number of courses to those thus displaced must be taken in some later term.

(2) A student who at the beginning of a term is not under conditions, but who has been obliged in previous terms, for whatever reasons, to omit one or more courses, so that he is not in full standing with his class, may apply to the Registrar for permission to take a larger number of courses than that constituting the regular work of the term. If the application is granted, he may take one extra course, and not more than one, in each succeeding term, unless in any term he receives a condition. In case he receives a condition, the privilege of taking an extra course is revoked.

(3) A senior whose average standing in the preceding term is in a group higher than the fifth, may apply for permission to take an extra course, even though he has conditions.

(4) No student who requires fewer than five courses for graduation shall be permitted to take fewer than four courses in his last term. He shall be held responsible for the completion of all the courses which he takes in that term.

(5) A student whose deficiencies, resulting from the displacement of regular courses by those which have been taken to remove conditions of the R Class, or by those taken for absences or an extra condition, amount to three or more courses, shall be ranked as a candidate for graduation one term later than the class of which he was a member.

## VI. *Removal of Entrance Conditions.*

(1) Opportunities for the removal of entrance conditions by examination are given only at the regular entrance examinations in June and September.

(2) No student under entrance conditions will be admitted to the sophomore class, except by express permission of the Committee on Examination and Standing. If this permission is granted, the student will be required to take for the removal of the entrance condition a course in the subject in which his condition lies. The course so taken will displace one of the student's regular courses. See II C and V (1).

## VII. *Fees*

A fee of $3 is charged for each examination taken for the removal of a condition; also for the examination in a course which has been repeated or which has been taken for the removal of a condition.

## VIII. *Administration of the Rules*

The administration of the rules concerning conditions, and all other rules which concern the standing of a student in his class, or the standards of scholarship in general, is in charge of the Committee on Examinations and Standing. The Dean of the Faculty is Chairman of this Committee, and the Registrar is Secretary. Matters to be brought before the Committee should ordinarily be presented to the Registrar in writing, or may be presented in person at a meeting of the Committee.

The Committee on Examinations and Standing applied the above rules with reference to all work from the beginning of the first term of the academic year 1916-17.

Conditions incurred before the academic year 1916-1917 are treated exactly in the same manner as conditions incurred during the academic year 1916-1917.

## FRESHMAN TESTS

(1) At three set times in each term general uniform tests will be held in all the subjects of freshman year, and upon

a combination of the marks obtained in these tests and in the recitations, a report of the standing of each student shall be handed in to the Registrar's office within five days from the date of the test.

(2) The deficiencies reported shall be investigated in personal interviews with the students for the purpose of finding out the nature and cause of such deficiencies.

(3) A student who is deficient in eight or more hours shall be put on probation and shall be debarred from participation in all extra-curriculum activities.

(4) A student who flagrantly and persistently neglects his work shall be compelled to withdraw from the University, and shall be subject to the rules governing students dropped at the end of the term.

## STANDING

The results of the term examinations are combined with those of the work done during the term to decide the relative standing or rank of the student.

The rank in each course is determined by the instructor, who computes from the term work and examinations the marks of the class; those who have satisfied the requirements of the course are classified in five groups in the order of merit.

The first group indicates very high standing and contains not more than ten per cent of the entire class.

The second group indicates high standing and contains not more than twenty per cent of the entire class.

The third group indicates medium standing and contains not more than thirty-five per cent of the entire class.

The fourth group indicates low standing and contains not more than twenty-five per cent of the entire class.

The fifth group contains the remainder; it indicates very low standing.

The general rank of a student is determined by combin-

ing his group numbers in the several courses in proportion to the allotted schedule time of each. The students whose averages are highest and above an established limit are assigned to the first general group; those next highest to the second general group, and so on through the general groups.

A report of the standing of each student is made to his parent or guardian by the Registrar at the close of the first term and at the close of the year. The latter report gives also the standing for the whole year.

## DEGREES

A student who passes his final examinations is ordinarily recommended by the Faculty for the degree appropriate to his course, and if the recommendation is approved by the Trustees, the degree is conferred at Commencement and the diploma of the University is given.

## FINAL RANK

The final rank of members of the graduating class is computed by combining the averages for the several years of the course, except that the average for the freshman year is omitted in those cases in which it would lower the standing of the student. Special Honors in particular departments are awarded.

## COMMENCEMENT SPEAKERS

The student whose individual rank is highest is ordinarily awarded the Latin Salutatory by vote of the Faculty. The Valedictory is awarded with special regard to the qualifications of the student as a valedictorian as well as on the ground of scholarship.

In the award of all degrees and honors, regard is had to the conduct of the student during his course, and any student who has incurred serious discipline may be debarred from the rank to which otherwise his scholarship would have entitled him.

# RELIGIOUS WORSHIP AND ACTIVITIES

The President of the University is the responsible center of the religious activities of the University, having direct charge of the services in Marquand Chapel, while the executive details are ordinarily cared for through the Board of Directors and officers of the Philadelphian Society in Murray-Dodge Hall.

This Society was founded in 1825. From it, in 1877, went the group of students who established the Student Department of the Y. M. C. A., out of which has sprung the World's Student Christian Federation. The Student Volunteer Movement for Foreign Missions also was started by members of the Society.

Murray Hall, erected in 1879 from a bequest left for the purposes of the Society by Hamilton Murray, of the Class of 1872, contains an auditorium and a room for general social and business purposes. Dodge Hall, connected with Murray Hall by an ambulatory, is the gift of the late William E. Dodge, and his son, Cleveland H. Dodge, of the Class of 1879, in memory of the late W. Earl Dodge of the same Class. The privileges of the building are extended to all students of the University, including the members of the various military and naval units temporarily housed in the University, irrespective of their relations to the Philadelphian Society.

## I. Religious Courses and Lectures

A very complete series of courses covering the different approaches to the field of religion is ordinarily presented to the undergraduates of the University, and voluntary courses in the History of Religions, the Philosophy of Re-

ligion, the Literary Study of the Bible, the Scientific Approach to Christianity, the Old Testament, the New Testament, Foreign Missions, Social Service, and the general problems of morality and character, have been offered, and a special series of open lectures on the Fundamentals of Christianity has been established.

## II. Religious Worship

Divine Service is held in Marquand Chapel each Sunday morning at 11 o'clock, at which attendance is required. Evening service is held either in Marquand Chapel or in union with the town churches Sundays at 7:30 P. M.

The sacrament of Holy Communion is celebrated by the President of the University in Marquand Chapel twice during each college year—in the fall and during the spring term.

Any student may register for Sunday attendance in one of the town churches, and his presence there will be credited in place of attendance at the University Service in the Chapel.

## III. Directors and Officers

The executive and administrative religious work of the University centres in the following Board of Directors.

Board of Directors

John Grier Hibben '82, *Ex-Officio*
John McDowell '94, *Chairman*
J. Ross Stevenson, Princeton Theological Seminary
Robert P. Wilder '86
Paul Matthews '87
Robert E. Speer '89
T. H. P. Sailer '89
Robert Garrett '97
Ralph W. Harbison '98
Charles E. Beury '03
Norman M. Thomas '05
Norman B. Tooker '06
Timothy N. Pfeiffer '08
Cleveland E. Dodge '09
George W. Perkins, Jr., '17
Charles W. McAlpin '88, *Treasurer*

*General Secretary*
Charles Rosenbury Erdman '86

## THE ST. PAUL SOCIETY

The St. Paul Society is composed of students who are connected with the Episcopal Church and is affiliated as the Episcopal Department of the Philadelphian Society. Its work includes the maintaining of Sunday services in a number of small communities near Princeton, assisting in the work of the local parish and seeking to strengthen and deepen the religious life of the Episcopalian students.

# PUBLIC LECTURES

## TRASK LECTURES

The income from $10,000, presented by the late Spencer Trask, of the Class of 1866, is available to secure the services of eminent men to deliver public lectures before the University on subjects of special interest.

## STAFFORD LITTLE LECTURESHIP ON PUBLIC AFFAIRS

Founded in 1899 with a gift of $10,000 by the late Henry Stafford Little, of the Class of 1844. At the suggestion of the donor, the Hon. Grover Cleveland, ex-President of the United States, was invited to deliver before the students of the University "such lectures as he might be disposed to give from year to year," and until his death in 1908 Mr. Cleveland was the Stafford Little Lecturer. Since that time it has been customary to have a different lecturer each year.

The Stafford Little Lectures are published by the Princeton University Press.

## THE LOUIS CLARK VANUXEM FOUNDATION OF PRINCETON UNIVERSITY

A bequest of $25,000 under the will of Louis Clark Vanuxem, of the Class of 1879. By direction of the executors, the income of this foundation is to be used for a series of from four to six public lectures before the University annually, at least one half of which shall be on subjects of current scientific interest. The lectures are to be printed and distributed among schools and libraries generally. They are published annually by the Princeton University Press.

### UNIVERSITY LECTURES ON CHRISTIANITY

Established in 1914 by the Board of Trustees as an annual course of university lectures on the Nature of Christianity or on the History and Literature of the Bible, to be given each year by a scholar of recognized ability and learning.

### THE ALBERT PLAUT CHEMICAL CLUB FUND

Established in 1912 with a gift of $5,000 by Mr. Albert Plaut, of New York. The income is to be used for the benefit of the Chemical Club, and primarily for providing lectures before the club by men of distinction in the field of industrial chemistry or a related science.

# ISABELLA McCOSH INFIRMARY

JOHN MCDOWELL CARNOCHAN, M.D., *University Physician*
*JOSEPH S. VANNEMAN, M.D., *Assistant University Physician*
HELEN GROSS, R.N., *Infirmarian*

The Infirmary, erected in 1892 by alumni and friends of the University, and subsequently enlarged, is the university hospital. It is equipped with the most modern conveniences and necessaries of hospital construction, and comprises two separate buildings connected by a corridor. One of these is reserved as a ward for contagious diseases and for other cases requiring special isolation.

As the Infirmary is not fully endowed, each student is charged an annual fee of $7 ($3.50 per term), which in all cases of ordinary illness procures for him the necessary care, including board, nursing, laundry, and physician's fees. When an illness extends beyond a week, board is charged after the first week at the rate which the student pays at his usual boarding place. While he is at the Infirmary his board is rebated at his boarding place. Ordinary consultations are given daily by the University Physician or the Assistant University Physician at the office in the Infirmary, free of charge. The Infirmary is under the constant and careful supervision of the University Sanitary Committee. The Infirmarian, who is an experienced trained nurse, and seven assistant nurses are in residence, and a housekeeper and regular servant staff are maintained. When special nursing is required an additional charge is made.

Proprietors of lodging houses where students live in town are required to report to the Secretary of Business Administration any cases of illness which occur in their

* Absent in war service.

houses. The University Physician is immediately notified, and if in his judgment the student should be removed to the Infirmary he orders the students to be removed, and so reports to the Infirmary. The Infirmarian reports to the office of the Secretary of Business Administration when a student is admitted to or discharged from the Infirmary. Similarly, if a student is found ill in a dormitory room his janitor reports the fact to the office of the Superintendent of Grounds and Buildings, who in turn notifies the University Physician.

INFIRMARY REGULATIONS

1. The Sanitary Committee shall have general control of the medical administration of the Infirmary, the care of patients, and the relations of physicians or nurses to the Infirmary or to each other, subject to the approval of the Board of Trustees.

2. The University Physician or the Assistant Physician will be in attendance at the Infirmary every day from 8.30 to 10.30 a. m., and from 5.00 to 6.00 p. m. There will be no charge for students for consultation and treatment at the Infirmary.

3. Any physician legally registered or licensed to practise medicine in the State of New Jersey will be privileged to attend patients in the Infirmary upon the approval of the Sanitary Committee. Physicians who desire to attend patients at the Infirmary will make application to the Secretary of the Sanitary Committee. This rule does not apply to physicians or surgeons called in consultation by an attending physician.

4. Assignments of patients to individual rooms at the Infirmary will be made at the discretion of the University Physician.

5. Should the number of patients at the Infirmary at any time become so large as to require the removal else-

where of convalescents to make room for cases of serious illness, it shall be the duty of the University Physician to determine which patients may, with safety, be removed in the emergency.

6. Only emergency cases will be operated on at the Infirmary.

7. Every patient will be required to leave the Infirmary promptly after being dismissed by his physician.

8. If special nurses are required, they will be procured at the direction of the University Physician and controlled by the Infirmarian and an extra charge made to the patient.

9. Visitors and patients will be admitted between the hours of 1.30 and 5.30 p. m. Visitors are not admitted to the contagious ward.

## PRINCETON UNIVERSITY STORE

The Princeton University Store is a coöperative association, membership in which is open to all students and other members of the University upon the deposit of a small fee. The store deals in textbooks used in the University, stationery, athletic goods, Princeton souvenirs, confectionery, etc. The members of the store have the privilege of purchasing at a discount from the regular retail price and in addition receive a yearly dividend based on the total amount of their purchases.

## PRINCETON UNIVERSITY PRESS

The Princeton University Press, whose building was erected and equipped by Charles Scribner, of the Class of 1875, has been organized under the act providing for "associations not for pecuniary profit," and its objects, as set forth in its charter, are "in the interest of Princeton University to maintain and operate a printing and publishing

plant for the promotion of education and scholarship, and to serve the University by manufacturing and distributing its publications."

To date the list of publications comprises approximately seventy-five volumes. A complete catalogue may be had by addressing the Princeton University Press, Princeton, N. J.

# PART X

## EXPENSES, ALLOTMENT OF ROOMS, UNIVERSITY DINING HALLS, UNIVERSITY BILLS, PRIZES, REMISSION OF TUITION, SCHOLARSHIPS AND CHARITABLE FUNDS

# EXPENSES

*Board, 36 weeks .....$7.00 per week
Washing, 36 weeks .....75 cents per week
†Tuition and Public Room fee .....$200.0 per annum
Library fee .....$5.00 per annum
‡Laboratory fee, extra for chemical
courses involving laboratory work ....$7.50 to $18.00 per term
Laboratory fee, extra for the courses
Physics 101, 102; Physics 201, 202.....$5.00 per annum
Apparatus deposits (see below)
Room rent in dormitories (according
to location of room) .....$23.00 to $250.00 per annum
Heat, fixed charge (according to lo-
cation of room .....$10.00 to $28.00 per annum
Light, fixed charge (according to
location of room) .....$12.00 to $28.00 per annum
Infirmary fee.....$7.00 per annum
Department of Physical Education fee .....$10.00 per annum
Matriculation fee, payable upon matriculation .....$5.00
Graduation fee, payable second term,
senior year .....$12.00

*Apparatus Deposits.*—Students pursuing laboratory courses are required to make deposits to pay for apparatus injured or destroyed. At the end of the term any excess in favor of the student is placed to his credit on the bill for the next term. The deposits in the courses are: General

* Freshmen and sophomores are required to board at the University Dining Halls. The rate of board for the year 1918-1919 will be $7.00 per week, but students who are unable to pay the full price are given an opportunity to secure employment as waiters at the Dining Halls and thereby earn all or a part of the price of board.

† Remission of Tuition is granted under certain conditions to students needing assistance. For full information regarding Remission of Tuition, see later.

‡ Use of Chemical Laboratory, one afternoon a week $7.50 per term; two afternoons a week $13.00 per term; three afternoons a week $18.00 per term.

Physics—$5; Chemistry—$10 to $15 for each course (two terms). In Geodesy—freshmen, second term, $10; sophomores, second term, $15; juniors, both terms, $10; seniors, first term, $5.

Students taking any of the courses in graphics will require a drafting outfit costing from $18 to $25.

## ESTIMATE OF ANNUAL EXPENSES

### UNDERGRADUATE

Average minimum, medium, and maximum estimates of the necessary expenses for one year of a student occupying an unfurnished room in a dormitory have been prepared as follows:

| | *Min.* | *Med.* | *Max.* |
|---|---|---|---|
| *Board, 36 weeks at $7.00 | $252.00 | $252.00 | $252.00 |
| Washing, 36 weeks, at 75 cents per week | 27.00 | 27.00 | 27.00 |
| †Tuition and Public Room fee | 200.00 | 200.00 | 200.00 |
| Library fee | 5.00 | 5.00 | 5.00 |
| Infirmary fee | 7.00 | 7.00 | 7.00 |
| Department of Physical Education fee | 10.00 | 10.00 | 10.00 |
| Room rent | 30.00 | 100.00 | 200.00 |
| Heat (per room) | 10.00 | 19.00 | 28.00 |
| Light (per room) | 12.00 | 20.00 | 28.00 |
| Matriculation fee (entering students) | 5.00 | 5.00 | 5.00 |
| Graduation fee (seniors) | 12.00 | 12.00 | 12.00 |

Laboratory fees for courses in chemistry and physics, apparatus deposits, books, Hall dues, clothes, furnishing for rooms, incidentals, and traveling and vacation expenses have not been included in these estimates.

* Freshmen and sophomores are required to board at the University Dining Halls. The rate of board for the year 1918-1919 will be $7.00 per week, but students who are unable to pay the full price are given an opportunity to secure employment as waiters at the Dining Halls and thereby earn all or a part of the price of board.

† Remission of Tuition is granted under certain conditions to students needing assistance. For full information regarding Remission of Tuition, see later.

# RULES GOVERNING THE ALLOTMENT AND RENTAL OF ROOMS

**NOTE: The rules governing the allotment and rental of dormitory rooms are suspended until further notice.**

I. Rooms will be assigned *members of the University* for occupation during the following academic year between the 15th of May and 1st of June of each year.

II. This assignment will embrace:

(*a*) All rooms occupied by students whose connection with the University will terminate at the end of the academic year.

(*b*) The rooms of all seniors, whether with room-mate or not (unless the room may be retained by a graduate or for a brother, as elsewhere provided in the rules).

(*c*) All rooms for which the lease has not been properly renewed.

III. An allotment may also take place at the close of the first term of each academic year for the purpose of assigning such rooms as may then fall vacant.

IV. (a) The assignment of rooms will in all cases not herein specially excepted take place in such a manner that specific rooms shall be assigned by lot.

(*b*) The rooms to be assigned are classified according to the amount of their rental, without heat and light, in eight groups as listed on pages 409 to 413. The rental in all cases includes the necessary painting, papering, etc.

(*c*) The applicants for rooms will be divided into corresponding groups, each applicant being required to inform the Treasurer in writing before the 10th of May, or the 20th of January, as the case may be, both of his intention to enter the drawing and of the group in which he wishes to be placed.

*Every applicant for a room shall agree beforehand, and shall be required, to take the room which may be assigned to him by lot in the group in which he has made application.*

(*d*) Each drawing will begin with the first group and proceed from that group successively through the several higher groups. Any applicant who does not obtain a room in the group to which he first asked to be assigned may be allowed to draw in the next higher group.

(*e*) If there be any rooms remaining unassigned after a drawing, such rooms may be assigned by subsequent allotment at such time before the end of the year or of the term as the Treasurer may appoint; such supplementary allotment to be made under the same rule as the principal allotment, with this exception, that the rooms disposed of by means of it may be classified in the same way or not, at the discretion of the Treasurer.

(*f*) a. Priority in the drawing will be determined by the length of time the applicants have been members of the University. The first drawing will include the names of all applicants who have been members of the University for more than one year. A second drawing will include the names of all applicants who have been members of the University one year or less.

b. If the application for a double room is signed by students who have been members of the University different lengths of time, it will be classified and placed in the drawing in which the student who has been a member of the University the shortest length of time would be placed.

(*g*) a. On or before the 5th day of May there will be drawn by lot from all single and double rooms available for occupancy in the fall, accommodations for *150 entering freshmen,* equitably distributed among the several groups according to rental.

b. The Registrar of the University will send to all candidates for admission to the *freshman class,* who have been *admitted at the June examinations,* a statement of the

location and number of rooms reserved throughout the dormitories for the use of freshmen, together with the rental to be charged in each case, and a statement of the owner's valuation of the furniture which may have been left in any of the rooms. The student to whom a room may be allotted is under no obligation to purchase furniture which may have been allowed to remain in the rooms as the property of the former occupant. Accompanying this statement will be a form of application blank which may be filed with the Treasurer at any time prior to July 23, upon which the entering student may indicate in what group he desires to draw for a room and whether, in the event of his failure to draw a room in the group first chosen, he is willing to enter his application in the next higher group.

(*h*) Double rooms are separately classified and allotted in accordance with the above regulations. Only such suites as consist of a study and two bedrooms are considered double rooms within the meaning of this clause. No double room can be assigned to a single individual, nor is it within the privilege of any single individual to draw for a double room. Every application for a double room must contain the names of two persons who intend to occupy the room together and who undertake to be jointly responsible for the rent of the same.

(*i*) Whenever for any reason one of the occupants of a double room is permitted or obliged to cancel his room lease, the remaining occupant must vacate the room at the end of the current academic term, unless he agrees to pay the whole rent, or provide a room-mate who shall join him in signing a new lease for the remainder of the academic year.

V. (*a*) The tenure and liabilities of those to whom rooms are assigned under these rules shall be the tenure and liabilities expressed in the following lease, which must be

signed in the case of each room allotted by the student who is to occupy it, and by his parent or guardian. This lease must be signed and delivered to the Treasurer in each case within ten days of the allotment, except in the case of new students, provided for under Rule 4g.

"This agreement, made the day of 191 , between the Trustees of Princeton University and of witnesseth, that the said Trustees of Princeton University do hereby lease unto the said Room No. in the Entry of , to hold for the academic year of , paying therefor during the said term unto said Trustees of Princeton University the yearly rent of $ in two equal payments to be made the one within the first four weeks of the first term of the academic year, the other within the first four weeks of the second term of the academic year.

"And the said covenants to pay the said rent in the manner and at the times aforesaid, and to deliver up the said premises to the said Trustees of Princeton University or its legal representative at the end of said term in as good condition as the same are or may be put into by the said Trustees of Princeton University, reasonable use and wear and tear thereof, and fire and other casualty excepted. The said lessee also covenants that he will not do or suffer to be done any damage in the leased premises, and that, if any damage beyond reasonable wear and tear be done, he will cause the same to be made good as soon as possible at his own expense, employing for that purpose the proper University workmen, and paying the costs thereof at once to the University Treasurer, it being understood that the damage here meant includes the breakage of glass and locks, whether by accident or design. The said lessee further covenants that he will not sublet the same or any part thereof, nor permit any other person or persons to occupy the same or any part thereof, nor make nor suffer to be made any alteration therein without the consent of the said Trustees of Princeton University for that purpose in writing first had and obtained. And the said lessee further covenants that the said Trustees of Princeton University through their authorized representatives may enter the said premises for the purpose of viewing or making improvements therein at any reasonable times in the daytime, or at any other time for the legitimate purposes of Univer-

sity discipline. This lease is made on the express condition that it may be terminated by said Trustees through their representative."

(*b*) Any occupant of a college room may retain his room until the end of his undergraduate or graduate course, provided he annually notify the Treasurer of his intention of retaining it and sign a new lease before the 1st of May; otherwise his room will be considered vacant and will be included in the next allotment. In case an occupant of a double room be left without a room-mate at the end of the academic year, he may renew his lease upon condition of naming another student of the University who will become joint lessee with him for the following year, unless the room-mate who leaves is a senior or a fourth-year special. It will also be the privilege of any occupant of a college room to renew his lease at the end of his own tenure in the name of his brother, when that brother is to enter the University immediately.

(*c*) The right to occupy a room is not transferable and terminates with the expiration of the lease. Any attempt on the part of the occupant of a college room to sell or transfer, directly or indirectly, his right of occupancy will be deemed a fraudulent transaction. The penalty for violating this rule will be forfeiture of the room by the new lessee.

(*d*) The occupant of a college room shall deposit with the Secretary of Business Administration the sum of 25 cents for each key to his room that may be furnished him by the University; and all amounts paid under this clause will be refunded upon return of the key or keys furnished.

VI. (*a*) The seller and buyer of furniture in rooms allotted to students now in college will be required to file in the office of the Secretary of Business Administration, on or before June 15, a statement signed by each of the students

concerned and by their parents or guardians, to the effect that they have agreed upon a mutually satisfactory price for such of the furniture as the buyer is willing to purchase. In the absence of such an agreement being filed on or before June 15, the owner of the furniture will be notified to remove it immediately. If this notice is not complied with, the furniture will be sold by the University authorities.

(*b*) If any of the rooms drawn and held in reserve for the next incoming freshman class contain furniture, the owner of the furniture will be informed that it must be removed not later than the day in September when the dormitories are opened for occupancy; unless the freshman to whom it is allotted shall elect to purchase it at the price fixed by the owner.

VII. No exchange of rooms will be allowed unless formally sanctioned in writing by the Treasurer; and then only upon terms explicitly stated in a written application signed by both parties to the proposed exchange, and not in contravention of the spirit of these rules. Such application will be kept on file in the Treasurer's office.

VIII. When rooms are vacated during a term, the rent must be paid until the end of the term. An occupant of a college room who expects to be absent on leave for a term may be released from the obligations of his lease, provided he notify the Treasurer before the beginning of the term during which he expects to be absent, and give up the room; but no abatement or drawback of room rent will be allowed for any period less than a term, except in special cases to be stated in writing, and by permission of the Treasurer.

The Faculty of the University is directed to suspend or expel every student that may be found guilty of breaking or evading these rules or of injuring or interfering with the person or property of his successor in a room; or of aiding or abetting another in such transgression, evasion, injury,

or interference. The Faculty and all its officers are instructed to take the utmost pains, by ordinary or extraordinary means, to discover such offenders and prevent such offences.

The Faculty is further instructed to report, with the evidence discovered, the names of any graduate or outsider that may be guilty of such offenses to the Committee on Grounds and Buildings; and said committee is authorized and directed to procure legal counsel, and when the evidence seems to justify it to take appropriate legal proceedings against any and every offender before a court of law.

## LIST OF DORMITORY ROOMS

### FIRST GROUP ($20.00-$43.00 a year)

48 SINGLE ROOMS

| | | |
|---|---|---|
| $20.00 | (5) | Hamilton: 1 A; Reunion: 16 S M; 17 S M; 18 S M; 19 S M. |
| 30.00 | (6) | Dod: 12 N; 12 S; 7 M; Edwards: 2 N; 5 N; 10 S. |
| 35.00 | (10) | Edwards: 7 N; 8 N; 32 N; 35 N; 7 S; 8 S; 37 S; 40 S 41 S; 42 S. |
| 36.00 | (4) | West: 3 N; 4 N; 3 S; 4 S. |
| 40.00 | (23) | Hamilton: 306; 307. West: 9 S. Edwards: 1 N; 9 N; 10 N; 12 N; 15 N; 22 N; 25 N; 37 N; 38 N; 39 N; 40 N; 2 S; 5 S; 9 S; 17 S; 20 S; 27 S; 30 S; 38 S; 39 S. |

### SECOND GROUP ($45.00 to $75.00 a year)

88 SINGLE ROOMS

| | | |
|---|---|---|
| $45.00 | (13) | Edwards: 18 N; 19 N; 28 N; 29 N; 41 N; 42 N; 1 S; 18 S; 19 S; 28 S; 29 S; 32 S; 35 S. |
| 47.00 | (5) | Reunion: 1 N M; 2 N M; 1 S M; 2 S M; 3 S M. |
| 50.00 | (2) | Brown: "A" E; "B" W. |
| 52.00 | (10) | Edwards: 17 N; 20 N; 27 N; 30 N; 12 S; 15 S; 22 S; 25 S. West: 1 N; 2 N. |
| 53.00 | (6) | Reunion: 13 N M; 14 N M; 15 N M; 13 S M; 14 S M; 15 S M. |
| 55.00 | (12) | Edwards: 16 N; 21 N; 26 N; 31 N; 36 N; 11 S; 16 S; 21 S; 26 S; 31 S; 36 S. West: 10 N. |

56.00 (1) Edwards: 11 N.
57.00 (1) Hamilton: 2 A.
60.00 (4) Brown: "C" E; "E" E; "D" W; "F" W.
63.00 (2) West: 1 S; 2 S.
65.00 (2) Witherspoon: 17 E. Cuyler: 461.
69.00 (14) Reunion: 4 N M; 5 N M; 6 N M; 7 N M; 8 N M; 9 N M; 10 N M; 4 S M; 5 S M; 6 S M; 7 S M; 8 S M; 9 S M; 10 S M.
70.00 (4) Edwards: 3 N; 4 N. Hamilton: 1 D; 1 E. Witherspoon: 17 W.
75.00 (12) Dod: 13 N; 13 S; 21 M; 22 M; 24 M; 25 M; 27 M. Edwards: 33 N; 34 N; 3 S; 4 S. Upper Pyne: 14.

4 Double Rooms

74.00 (4) Reunion: 1 N; 2 N; 1 S; 2 S.

THIRD GROUP ($76.00 to $110.00 a year)

121 Single Rooms

$80.00 (24) Brown: 1 E; 10 E; 1 W; 10 W; 1 S E; 10 S E; 1 S W; 10 S W. Dod: 1 N; 1 S; 1 M; 3 M; 4 M; 6 M. Edwards: 13 N; 14 N; 23 N; 24 N; 33 S; 34 S. Witherspoon: 18 E; 19 E; 18 W; 19 W.
84.00 (2) West: 17 N; 20 N;
85.00 (14) Blair: 61. Cuyler: 413. Edwards: 13 S; 14 S; 23 S; 24 S. Hamilton: 1 C; 2 C. Witherspoon: 1 E; 13 E; 1 W; 13 W; 8 E M; 8 W M.
90.00 (30) Brown: 4 E; 7 E; 4 W; 7 W; 4 S E; 7 S E; 4 S W; 7 S W. Cuyler: 442; 452. Dod: 5 N; 9 N; 5 S; 9 S; 8 M; 10 M; 11 M; 13 M; 14 M; 15 M; 17 M; 18 M; 20 M. Holder: 105; 106; 2 B. Little: 46. Witherspoon: 5 E; 9 E; 5 W; 9 W.
94.00 (4) West: 18 N; 19 N; 17 S; 20 S.
100.00 (2) Blair: 1; 63.
105.00 (24) West: 5 N; 6 N; 7 N; 8 N; 9 N; 11 N; 12 N; 13 N; 14 N; 15 N; 16 N; 6 S; 7 S; 10 S; 11 S; 14 S; 15 S. Witherspoon: E; 3 E; 2 W; 3 W. Little: 18.
110.00 (17) Blair: 93. Cuyler: 144; 161; 244; 411; 412; 421; 431; 432; 441; 451; 462. Holder: 14 A. Little: 15; 32; 34; 44.

10 Double Rooms

84.00 (6) Reunion: 9 N; 10 N; 9 S; 10 S; 18 S; 19 S.
100.00 (4) Reunion: 11 N M; 12 N M; 11 S M; 12 S M.

## FOURTH GROUP ($115.00 to $160 a year)

### 39 Single Rooms

$115.00 (5) West: 5 S; 8 S; 12 S; 13 S; 16 S.
125.00 (2) Upper Pyne: 12. Witherspoon: 20 E.
130.00 (13) Little: 16; Witherspoon: 6 E; 7 E; 10 E; 11 E; 14 E; 15 E; 6 W; 7 W; 10 W; 11 W; 14 W; 15 W.
135.00 (9) Blair: 94. Cuyler: 261; 262; 352; 362. Hamilton: 1 B; 2 B. Patton: 100; 109.
140.00 (3) Hamilton: 304; 305. Holder: 1 A.
150.00 (3) Upper Pyne: 3; 8; 13.
155.00 (1) Witherspoon: 20 W.
160.00 (3) Patton: 103; 105; 107.

### 20 Double Rooms

115.00 (10) Reunion: 3 N; 4 N; 5 N; 6 N; 8 N; 3 S; 4 S; 5 S; 6 S; 8 S.
130.00 (6) Witherspoon: 2 E M; 9 E M; 10 E M; 2 W M; 9 W M; 10 W M.
135.00 (1) Hamilton: 311.
140.00 (2) Witherspoon: 1 E M; 1 W M.
160.00 (1) Little: 101.

## FIFTH GROUP ($165.00 to $200 a year)

### 45 Single Rooms

$165.00 (14) Blair: 113; 114. Campbell: 2 A. Little: 13; 14. Patton: 14; 15; 24; 25. Witherspoon: 4 E. Cuyler: 141; 142; 242; 361.
180.00 (7) Witherspoon: 8 E; 12 E; 16 E; 4 W; 8 W; 12 W; 16 W.
190.00 (5) Blair: 111; 112. Cuyler: 342. Little: 62. Patton: 101.
195.00 (19) Campbell: 11; 12; 13; 14; 21; 22; 23; 24; 53; 54; 55; 56; 61; 62; 63; 64; 65; 66; 1 A.
200.00 (4) Upper Pyne: 4; 9. Lower Pyne: 2; 8.

### 26 Double Rooms

180.00.00 (4) Campbell: 3 A; 5 A; 6 A; 2 B.
185.00 (6) Witherspoon: 5 E M; 6 E M; 7 E M; 5 W M; 6 W M; 7 W M.
190.00 (4) Witherspoon: 3 E M; 4 E M; 3 W M; 4 W M.
195.00 (4) Blair: 11; 31; 33; 41.
200.00 (9) Brown: 3 E; 6 E; 9 E; 12 E; 3 W; 6 W; 9 W; 12 W. Patton: 34.

## SIXTH GROUP ($205.00 to $260.00 a year)

### 18 Single Rooms

210.00 (3) Blair: 3; 4; 5.
215.00 (6) Hamilton: 301. Little: 63; 124; 134; 144. Patton: 91.
220.00 (1) Hamilton: 3 C.
225.00 (4) Lower Pyne: 4; 10. Upper Pyne: 5; 10.
245.00 (4) Little: 151; 152; 163; 164.

### 104 Double Rooms

210.00 (4) Dod: 14 N; 15 N; 14 S; 15 S.
220.00 (44) Blair: 21; 23; 34; 43; 44; 51; 52; 53; 54; 65; 71; 73; 81; 83; 91; 95; 97. Brown: 2 E; 5 E; 8 E; 11 E; 2 W; 5 W; 8 W; 11 W. Hamilton: 3 A. Holder: 11; 12; 3 A; 7 A; 3 B; 7 B; 2 D. Little: 31; 61. Patton: 30; 31; 32; 40; 41; 42; 43; 52; 53.
235.00 (3) Brown: 12 S E; 12 S W. Hamilton: 12.
250.00 (61) Blair: 13; 15; 17; 64; 72; 74; 84; 92; 98. Brown: 3 S E; 6 S E; 9 S E; 3 S W; 6 S W; 9 S W. Campbell: 4 A. Dod: 2 N; 3 N; 6 N; 7 N; 10 N; 11 N; 2 S; 3 S; 6 S; 7 S; 10 S; 11 S. Holder: 4 A; 5 A; 6 A; 9 A; 10 A; 11 A; 12 A; 13 A; 8 B; 8 C. Little: 21; 23; 35; 38; 41; 43; 51; 53; 54. Patton: 33; 35; 36; 102. Lower Pyne: 15. '79 Hall: 21; 23; 31; 33; 43; 51; 53; 61.
260.00 (5) Blair: 6. Brown: 11 S E; 11 S W. Dod: 23 M; 26 M.

## SEVENTH GROUP ($265.00 to $325.00 a year)

### 1 Single Room

$270.00 (1) Little: 186.

### 189 Double Rooms

270.00 (2) Dod: 16 M; 19 M.
275.00 (87) Blair: 12; 14; 16; 22; 24; 32; 42; 62; 82; 96; 101; 102; 103. Brown: 2 S E; 5 S E; 8 S E. Cuyler: 143; 163; 211; 221; 222; 231; 241; 243; 251; 311; 321; 322; 331; 341; 343; 351. Dod: 2 M; 5 M; 9 M; 12 M. Holder: 21; 51; 113; 8 A; 2 C. Little: 22; 24; 33; 36; 42; 52; 121; 123; 131; 133; 141; 143; 171. Patton: 10; 11; 13; 20; 21; 22; 23; 50; 51; 60;

61; 62; 63; 70; 71; 72; 73; 81; 82; 83; 84; 85; 90; 92; 94; 108. '79 Hall: 41. Hamilton: 11; 16; 21; 309; 310; 312.

300.00 (59) Campbell: 25; 26; 27; 28. Hamilton: 14; 22; 24; 308. Little: 122; 132; 142. Holder: 22; 31; 32; 33; 34; 41; 42; 52; 53; 54; 61; 62; 71; 72; 75; 76; 84; 91; 93; 94; 111; 113; 121; 122; 123; 124; 131; 132; 133; 134; 141; 142; 143; 2 A. '79 Hall: 11; 13; 22; 24; 34; 44; 52; 62; 63. Lower Pyne: 1; 5; 7; 11. Upper Pyne: 11.

310.00 (2) Blair: 7; 9.

320.00 (2) Patton: 12. '79 Hall: 32.

325.00 (45) Blair: 104; 115; 116. Campbell: 15; 31; 32; 33; 34; 41; 51; 52. Cuyler: 212; 232; 263; 312; 332; 363. Hamilton: 300; 3 B. Holder: 43; 44; 63; 64; 73; 74; 81; 82; 92; 103; 104; 112. Little: 64; 71; 72; 161; 172; 181; 185. Patton: 80; 93; 95; 104; 106. '79 Hall: 42; 54.

## EIGHTH GROUP ($330.00 a year and over)

### 28 Double Rooms

$350.00 (19) Little: 66; 68; 162. Campbell: 16. Lower Pyne: 3: 9. Upper Pyne: 1; 2; 6; 7.

355.00 (5) Campbell: 42; 44. '79 Hall: 12; 14; 64.

380.00 (6) Holder: 65; 66; 101; 102. Little: 182; 183.

405.00 (1) Little: 184.

420.00 (1) Blair: 2 (with privilege of a third occupant).

435.00 (1) Little: 153.

460.00 (1) Little: 143.

490.00 (1) Little: 111 (three occupants).

540.00 (1) Little: 112 (three occupants).

630.00 (1) Blair: "A" (three occupants).

## THE UNIVERSITY DINING HALLS

The Dining Halls are being used exclusively, for the duration of the war, by the various military organizations the University is maintaining for the Government. Of the five large dining rooms, two have been assigned to the School of Military Aeronautics, two to the Student Army Training Corps, and one to the Naval Unit. Military regulations are being strictly complied with, and the rations are those specified by the United States Army.

## UNIVERSITY BILLS

All university expenses, including board, must be paid in advance to the Treasurer of the University.

Students are required to call at the Treasurer's office in the course of the first ten days of each term, and to give information as to their place of boarding, etc., so that their bills can be made out. All bills must be paid within the first four weeks of the term. Failure to comply with this rule will deprive the students of the privileges of the University until payment is made, unless excused by special vote of the Faculty.

When a student enters the University before the middle of the term he shall pay in full the usual charges for that term, with the exception of the charges for board; if he enter after the middle of the term, he shall pay one-half. For board he shall pay in proportion to the time.

When a student leaves the University, whether voluntarily or by dismissal, before the middle of any term, one half of the charges for tuition and public rooms for that term will be refunded. But in the case of temporary absence and subsequent return, although the absence be for more than half a term, no such rebate will be granted.

When a student is dismissed from the University for any cause, the advance deposit for board, heat, and light, beyond the time of dismissal, will be refunded to his parent or guardian.

When at the end of the first term the amount of the advance deposit proves to be in excess of the sum required to defray the board or room bills of any student, the excess will be credited on his bill for the next term. At the end of the academic year the amounts overpaid by the members of the *graduating class* for board, room rent, heat, and light will be refunded by the Treasurer to the student's parent or guardian. The parent or guardian of *every undergraduate* will be advised of the amount of excess to the credit of his son or ward, and such amount will be *carried over to his credit on the bill for the first term of the following year.* In case of the withdrawal or dismissal from the University of any undergraduate at the end of the college year, such excess will be refunded by the Treasurer to the parent or guardian, when informed by the Dean of the College that such undergraduate has been withdrawn or dismissed from the University.

# PRIZES

### ALEXANDER GUTHRIE MC COSH PRIZE

The interest of $1,500 will be given annually to that member of the senior class who shall write the best essay in philosophy, including psychology, logic, metaphysics, and the history of philosophy. Any one of the following subjects may be chosen: The Meaning of Realism in Present-Day Philosophy and Present-Day Literature; The Place of Science in Thought; The Nature of Consciousness. The essay must be presented on or before April 9.

### LYNDE DEBATE PRIZES

Three prizes, the income of $5,000 contributed by Charles R. Lynde, Esq., will be awarded by a committee appointed by the Faculty, to the three successful competitors in a debate held immediately prior to the trials for the appointment of intercollegiate debaters. The debaters are six in number, three from each of the Literary Societies, and are selected by committees appointed by the Societies respectively from their own members in the Faculty.

### BAIRD PRIZES

Through the liberality of Charles O. Baird, Esq., the following prizes, representing the income of $6,000, will be given to those who excel in the oratorical exercises of the senior class, viz.: The Baird Prize of $100 to the best speaker of those who have ranked among the first six writers in any two of the three subjects of English literature, rhetoric, and oratory; a prize for oratory of $50 to the best speaker, exclusive of the Baird Prizeman, of those who, in the same departments, have ranked among the first twelve writers; a prize for delivery of $30 to the

best speaker exclusive of the two just mentioned; also, a prize for poetry of $50; and two prizes of $40 and $30, respectively, for the best and second best written disputations.

### CLASS OF 1859 PRIZE

The interest of $2,000, given by the Class of 1859, will be awarded to that member of the senior class who shall write the best essay on British Poetry of the Great War, and pass the best examination on English Literature since 1880. The essay must be handed in on or before May 31, and the examination will be held in June.

The subject of the essay for the Class of 1920 will be Social Reform in Victorian Literature.

### GEORGE POTTS BIBLE PRIZES

The yearly interest of $1,000, given in 1867 by Mrs. Sarah H. Brown, expended in the purchase of two copies of Matthew Henry's *Commentary on the Bible,* will be presented to the two best Biblical scholars of the senior class at the end of their course.

### LYMAN H. ATWATER PRIZE IN POLITICAL SCIENCE

This prize, being the annual interest on the sum of $1,000, contributed by the Class of 1883, was instituted as a memorial of the Rev. Lyman H. Atwater, D.D., LL.D., Professor of Political Science. It will be given to that member of the senior class who shall have passed the best examination and written the best thesis on some subject in political science, to be assigned by the professors in charge of Jurisprudence and Politics.

The thesis, which must be in scholarly form and legibly written, must be in the hands of the Chairman of the Department of History and Politics by June 2; the examination will be held on that day. The subject for the thesis in

1919 and the basis on which the examination is to be set will be: Possibilities of Reform in Congressional Committees.

FREDERICK BARNARD WHITE PRIZE IN ARCHITECTURE

The late Mrs. Norman White established in memory of her son, Frederick Barnard White, of the Class of 1883, a prize in architecture, yielding $40. The prize is open to the entire junior and senior classes and to special students who take a full schedule of studies. The subject of the essay for the year 1918-1919 is: The Greek Theatre. The subject of the examination is Greek Architecture. The essay must be presented on or before May 15.

CLASS OF 1869 PRIZE IN ETHICS

The annual interest of $3,000, given by the Class of 1869, will be awarded to that member of the senior class who shall pass the best examination in ethics and write the best essay. The subject of the essay for the Class of 1919 may be either of the following: The Relation of Moral Value to Natural Impulse; The Ground of the Obligation of Patriotism. The essay must be presented on or before May 7.

C. O. JOLINE PRIZE IN AMERICAN POLITICAL HISTORY

The sum of $100 will be awarded annually at Commencement to that member of the graduating class who shall have maintained a creditable standing in the subject of American history, and who shall have submitted the best written dissertation. The subject of the dissertation for the year 1918-1919, is: The Results of the Blockade of the South by the United States Navy, 1861-1865.

The dissertation must be at least 5,000 words in length and must be accompanied by a bibliography of the subject. Specific references to the sources used must be given throughout.

The prize will be awarded by the professor or professors in charge of the Department of American History.

### THE NEW YORK HERALD PRIZE

The yearly interest of $1,000, presented by James Gordon Bennett, Esq., will be given to that member of the senior class, or to the special student of satisfactory standing, who shall have taken for both terms of senior year at least two of the courses given by the Departments of History and Politics, and of Economics, and at least one course in English literature for both terms, and who shall have presented the best thesis in English prose upon some subject of contemporaneous interest in the domestic or foreign policy of the United States Government. The thesis, which must be in scholarly form and legibly written, must be in the hands of the Chairman of the Department of History and Politics, by June 2. The subject for the thesis in 1919 will be: Abolition of Secret Diplomacy.

### CLASS OF 1876 MEMORIAL PRIZE FOR DEBATE IN POLITICAL SCIENCE

This prize is to be given annually by the Class of 1876 to the successful contestant in a debate on a subject of current interest in American politics, to be held on Washington's Birthday, said prize to be the interest of $2,000. The competitors, four in number, one from each class, are to be chosen by a vote of their respective classes.

### PHILO SHERMAN BENNETT PRIZE IN POLITICAL SCIENCE

The interest of the sum of four hundred dollars, the gift of the late Philo Sherman Bennett, of New Haven, Connecticut, will be given to that member of the senior or junior class of the University who shall write the best essay discussing the principles of free government. The essay

must be in the hands of the Chairman of the Department of History and Politics by June 2.

The subject for the year 1918-1919 is: Proportional Representation.

THE BARNUM PRIZE ON FRANCO-AMERICAN RELATIONS

For the year 1918-1919 a prize of two hundred dollars ($200.) is offered by William Barnum, Esq., of the Class of 1878, for the best essay on some phase of Franco-American relations before 1800. The contest is open to seniors. The subject of the essay will be announced later. Essays in competition must be handed to the Chairman of the Department of History and Politics on or before May 31, 1919.

*SPENCER TRASK DEBATING FUND

The interest of $3,000, given by the late Spencer Trask, Esq., of the Class of 1866, has been used to promote debating. One third of the interest has been awarded to the best debater in the trials for the intercollegiate debates with Yale and Harvard; one third for library books used in connection with debating; and one third for general debating expenses.

PRIZE IN AMERICAN HISTORY, ESTABLISHED BY THE SOCIETY OF COLONIAL WARS IN THE STATE OF NEW JERSEY

The sum of $50 will be awarded each year to that undergraduate of Princeton University who shall have submitted the best written dissertation upon some subject of American Colonial history assigned by the Department of American History.

The dissertation must be at least 5,000 words in length and must be accompanied by a bibliography of the sources used. Specific references to the sources must be given throughout.

Dissertations in competition must be in the hands of the

* There is at present no income from the Spencer Trask Debating Fund.

Registrar before May 1, and must be submitted anonymously. The names of the authors should be enclosed in sealed envelopes and attached to the dissertations.

The prize will be awarded by the Professor or Professors in charge of the Department of American History, and the decision will be announced at Commencement.

The subject for the year is: The Huddy Case.

### GARRETT PRIZE ON LATIN AMERICA

The sum of $100, the gift of John W. Garrett, Esq., of the Class of 1895, will be awarded annually, at Commencement, to that member of the Princeton undergraduate body who shall have submitted the best essay upon some subject connected with Latin America.

The essay must be at least five thousand words in length and must include a bibliography of the sources used. Specific references to the sources must also be given throughout.

The essays must be in the hands of the Chairman of the Department of History and Politics before June 2.

The subject for the essays of the year 1918-1919 will be: The A B C Nations and the War.

### MANNERS PRIZES

The income from an endowment of $6,000, the bequest of the late Edwin Manners, Esq., of the Class of 1877, is to be devoted annually to the advancement of literary and historical studies.

One half of the income will be awarded annually at Commencement to that student of the Graduate School who shall have submitted the best monograph on the history of New Jersey. This monograph must be at least 25,000 words in length, and must be accompanied by a bibliography of the subject discussed. Specific references to the sources used must be given throughout. The monograph must be

in the hands of the Chairman of the Department of History and Politics by May 1. The recipient of the award shall be designated "The Nova Caesarea Scholar."

Of the other half of the income, a suitable portion shall be expended for a gold medal in the form of a tiger, and this medal with the balance of the money will be given annually at Commencement to that member of the senior class who shall write the best character study or descriptive sketch in prose or verse. The manuscripts must be in the hands of the Chairman of the Department of English by May 1. By direction of the donor, the recipient of the award shall be designated "The Winner of the Golden Tiger."

### LAURENCE HUTTON PRIZE IN HISTORY

The income from an endowment of $2,500, given by Samuel Elliott, Esq., as a memorial to his friend, the late Laurence Hutton (hon. A.M. 1897), will be awarded annually at Commencement to that student of the University adjudged by the Faculty to have excelled in the work of the Department of History. The prize is open alike to graduate and undergraduate students.

### CHARLES IRA YOUNG MEMORIAL TABLET AND MEDAL

A memorial tablet to the late Charles Ira Young, of the Class of 1883, has been placed in the Palmer Laboratory by friends of Mr. Young.

In connection with this memorial, a bronze medal will be awarded each year to the student in the University who excels in research in Electrical Engineering, the medal to be known as the "Charles Ira Young Memorial Medal." The name of the winner of the medal is also to be inscribed each year upon the memorial tablet mentioned above.

### CLASS OF 1870 SENIOR AND JUNIOR ENGLISH PRIZES

Of the yearly interest of $1,500, one half will be given to the best Old English scholar of the senior academic class, and one half to the best English literature scholar of the junior academic class.

### WOOD LEGACY

The sum of $150, the income of a legacy of Dr. George B. Wood, will be awarded to that member of the junior class who shall stand highest for the junior year.

### JUNIOR ORATOR MEDALS AND MACLEAN PRIZE

Four gold medals, or books of equal value, will be awarded by a committee, appointed by the Board of Trustees, to the four successful competitors in an oratorical contest during Commencement week. The competitors are eight members of the junior class—four from the Cliosophic and four from the American Whig Societies—selected by committees appointed by the Societies respectively from their own members in the Faculty.

The Maclean Prize, founded by the will of the late Henry A. Stinnecke, Esq., consisting of the sum of $100, will be given to that one of the orators chosen by the Literary Societies from the junior class who shall during Commencement week pronounce the best English oration.

The committee of judges will be composed of a professor of English and two graduates of the University not members of the Faculty.

### DICKINSON PRIZE

The Dickinson Prize, founded in 1782 by the Hon. John Dickinson, of New Jersey, Governor of Pennsylvania and Delaware, consisting of a medal of the value of $60 (or its equivalent in money), will be awarded to that member of the junior class who shall write the best dissertation upon

any one of the following themes in logic: The Relation of Deduction and Induction; The Validity and the Practical Value of Syllogistic Logic; The Criterion of Truth. The dissertation must be presented on or before May 13.

THOMAS B. WANAMAKER ENGLISH LANGUAGE PRIZE

This prize, the yearly interest of $1,000, will be given to that member of the junior academic class who shall pass the best examination in English philology, and write the best thesis on some assigned topic therein.

MARY CUNNINGHAM HUMPHREYS JUNIOR GERMAN PRIZES

Two prizes, of $25 and $15 respectively, established by the late Professor Willard Humphreys, in memory of his mother, Mary Cunningham Humphreys, will be awarded to those members of the junior class who, having taken the regular German course for at least two years (all the courses in the Germanic Section of the Modern Language Department in junior year and either Courses 105, 106 or 203, 204) shall, at the close of the second term, pass the best examination on the work of the term.

R. PERCY ALDEN MEMORIAL PRIZES

The income of $1,000, given by John P. C. Alden, Esq., of the Class of 1907, and divided into a first and second prize, will be awarded annually to the two members of the junior French course who shall submit the best essays on a subject relating to French memoirs. The essays must be presented on or before May 15.

CLASS OF 1883 PRIZES FOR ENGLISH IN THE SCHOOL OF SCIENCE

Class of 1883 English Prize for Juniors in B.S. and Litt.B. Courses:—This prize, the annual interest of $1,000, will be given to that member of the junior class, a candidate

for the degree of B.S. or Litt.B., who shall have done the best work in the English studies of the year and submitted the best essay on a subject in English literature assigned by the English Department.

Class of 1883 English Prize for Freshmen in the Civil Engineering Course:—This prize, the annual interest of $1,000, will be given to that member of the freshman class, a candidate for the degree of Civil Engineer, who shall have done the best work in the English studies of the year, and shall have submitted the best essay on a subject assigned by the English Department.

### STINNECKE PRIZE

The Stinnecke Foundation was established in 1870 by the will of the late Henry A. Stinnecke, of the Class of 1861, and was supplemented by a bequest received in 1876 from his aunt, Miss Marie Stinnecke. The income is divided between the Stinnecke Scholarship of $500 and the Maclean Prize of $100.

The Stinnecke Scholarship, of the annual value of $500, tenable during the undergraduate course unless forfeited by neglect of study, is given every third year "to that person who, having entered the sophomore class, passes the best examination at the opening of the session in September, in the Odes of Horace, the Eclogues of Virgil, and the Latin Grammar and Prosody, as well as the Anabasis or Cyropaedia of Xenophon and the Greek Grammar." Students of the University who have been members of the freshman class, as well as new students entering the sophomore class, will be admitted to such examination. The committee of examiners is appointed by the Board of Trustees.

The next competition for this scholarship will be held in the autumn of 1920.

### CLASS OF 1861 PRIZE

The interest of $1,200, given by the Class of 1861, will be awarded to that member of the sophomore class who shall pass the best examination at the end of the year on the elective mathematics of the sophomore year.

### FRANCIS BIDDLE SOPHOMORE PRIZE

This prize, the yearly interest of $500, will be given to that member of the sophomore class who shall write the best English essay of the year.

### CLASS OF 1870 SOPHOMORE ENGLISH PRIZE

This prize, the yearly interest of $1,000, will be given to that member of the sophomore academic class who shall pass the best examination on the English studies of the year.

### ORANGE ALUMNI ASSOCIATION PRIZE SCHOLARSHIP

This scholarship, which pays the holder $200 per annum, the income from $4,000, given by the Princeton Alumni Association of the Oranges, will be awarded in accordance with the following conditions:

1. Only those are eligible to compete for this scholarship whose parents or family shall at the time of the competition have been resident for at least one year in the district of the Princeton Alumni Association of the Oranges. They shall present themselves for examination at the time of the entrance examinations in September, and shall take the *comprehensive examinations* in the four subjects required for admission under the Alternative Plan to a course leading to a bachelor's degree. These papers will not be read for the purpose of determining the winner until after the candidates have been in residence as regular members of the freshman class.

2. The Faculty shall name as winner of the scholarship that student who stands highest in this examination, and as

alternate the student who stands next highest. This alternate may become the holder of the scholarship in case of the death or removal of the winner.

3. The scholarship shall be retained by its winner during his freshman and sophomore years, provided that in his studies he maintains a rank not below the second general group and that he does not come under serious discipline for misconduct.

The last competition for this scholarship was held in the autumn of 1917. The next competition will be held in the autumn of 1919. Candidates intending to compete for the scholarship in any year shall notify the Registrar of their intention not later than September 10 of that year.

### THE PRINCETON CLUB OF PLAINFIELD ENTRANCE PRIZE

The Princeton Club of Plainfield, New Jersey, offers a prize of $50 annually to the resident of Plainfield or North Plainfield who enters the Princeton freshman class with the best examination record, provided he enters without conditions and remains a student in college in regular standing until the Christmas following his entrance.

## REMISSION OF TUITION

Undergraduates of insufficient means and of good mental ability and serious purport may apply to the Secretary of the University for remission of tuition. This remission is in the form of a loan, the recipient being required to sign a non-interest bearing note and to subscribe to the following conditions:

I. That he holds himself morally bound to pay this note in full at one time or by partial payments at the earliest date practicable.

II. That he will keep the University informed of his residence and occupation until this note is paid.

III. That he will give the University successive renewal notes when and as requested.

Remission of tuition and renewals are granted for the term and subject to the following conditions:

I. The recipient must be regular in attendance at his college exercises and free from serious discipline.

II. His class standing must not be below the third general group.

III. His board must not exceed seven dollars; and his room, if single, must not be above the third group, as described on page 318 of the Catalogue. Students rooming elsewhere than in the dormitories must not pay more than three dollars and fifty cents a week for rent, including light and heat.

In accepting remission of tuition it is understood that a student agrees seriously to devote his best energies to his studies, and if his work shall appear to suffer by reason of participation in extra-curriculum activities, or if his scale of living shall seem to be out of proportion to his means, he shall forfeit the remission of tuition even though he shall have complied technically with the rules.

Freshmen who have applied before the opening of college

and whose testimonials as to scholarship, character and need are satisfactory, will be granted remission of seventy-five dollars from the charge for tuition for the first term, on admission to the University.

Freshmen whose applications are received after the opening of college and students entering from other colleges, whose testimonials are satisfactory, will be granted remission of fifty dollars from the charge for tuition for the first term.

Sophomores, juniors, and seniors who previously have not applied for remission of tuition, but through changed conditions find themselves in need of financial assistance, may apply to the Secretary of the University, provided they have maintained a class standing not below the third general group and have complied with the other conditions.

At the opening of the second term freshmen and qualifying students who received remission of tuition and maintained a class standing in the first or second general group during the first term will be granted remission of one hundred dollars for the second term; those who maintained a class standing in the third general group will be granted remission of seventy-five dollars, and, in special cases, those whose class standing was below the third general group may be granted remission of fifty dollars.

At the opening of each term sophomores, juniors, and seniors who have previously received remission of tuition, have maintained a class standing not below the third general group, and have fulfilled the other conditions, will, on application, be granted a renewal, varying in amount from fifty to seventy-five dollars a term, in the discretion of the Secretary of the University.*

Within the first ten days of each term and before their

* Students who have previously held remission of tuition and have maintained a class standing in the first or second general group are eligible for University Scholarships. For information see page 341.

bills are made out, *applicants for remission of tuition or renewals are required to call at the office of the Secretary of the University* for the necessary order on the Treasurer.

The Secretary of the University is authorized, in his discretion, to remit the full charge for tuition in special cases. This will be done only after a personal interview with the applicant.

For application blanks, apply to the Secretary of the University, Princeton, New Jersey.

# SCHOLARSHIPS

## Scholarships Founded Between 1853 and 1902

(Income now used for University Scholarships)

In 1853 the Trustees authorized the Faculty to take such measures as might seem to them necessary towards securing a number of scholarships with a principal of one thousand dollars each. Pursuant to this authorization, between 1853 and 1902 sixty-four scholarships with a principal of one thousand dollars each were endowed by John Aitken, E. F. Backus, A. B. Baylis, Charles S. Baylis, James Blair, Isaac V. Brokaw, Mrs. P. Bullard, Hons. Simon and Donald Cameron (1), Aaron Carter, Jonathan Cogswell, D.D., Roswell Colt (3), Stephen Colwell, A. Creswell, Hon. Amzi Dodd (the Bloomfield Scholarship), Aaron Fenton, A Friend, A Friend (the Henry M. Alexander Scholarship), A Friend of President Maclean (the John Maclean Scholarship), Friends of President McCosh (the James McCosh Scholarship), Hon. Henry W. Green, Dudley S. Gregory, Richard T. Haines, Gen. N. Norris Halsted, Albert O. Headley, Dr. Hugh L. Hodge, Capt. Silas Holmes (5), Hon. John P. Jackson, Peter Jacobus, Jacob J. Janeway, D.D., Ladies of the Presbyterian Church of Huntington, N. Y., James Lenox (5), Drs. John and George M. Maclean (1), J. D. McCord, Frederick Marquand, Members of the Class of 1841, the Class of 1856, Members of the First Presbyterian Church of Bridgeton, N. J., Members of the First Presbyterian Church of Peekskill, N. Y., Members of the First Presbyterian Church of Trenton, N. J., Members of the Second Presbyterian Church of Elizabeth, N. J., George W. Musgrave, D.D., Matthew Newkirk, Dr. Samuel H. Pennington, Hon. Nehemiah Perry, Isaac N. Rankin, Harry E. Richards, M.D., George L. Sampson (the

Henry J. van Dyke Scholarship), Joseph R. Skidmore, I. S. Spencer, Alanson Trask, Joseph N. Tuttle, Hon. John Van Vorst, William White, and Chandler Withington; and one scholarship with a principal of one thousand five hundred dollars was endowed by Henry M. Flagler.

During the same period twenty-one memorial scholarships with a principal of one thousand dollars each were endowed as follows:

The Cyrenius Beers Scholarship by Miss Julia Beers, the J. S. Bonsall Scholarship by a bequest of Mrs. Susan R. Bonsall, the Albert Dod Brown Scholarship by Mrs. Susan D. Brown, the Grace Newcombe Denning Scholarship by Mrs. William Moir ($1,500), the Finley and Breese Scholarships by a bequest of Samuel F. B. Morse, the Elizabeth Musgrave Giger Scholarship by Prof. George M. Giger, D.D., the Charles Dickinson Hamill Scholarship by Samuel M. Hamill, D.D., the Matthew B. Hope Scholarship by the Trustees of the College of New Jersey as an acknowledgment of the services of Professor Hope in raising an endowment of over one hundred thousand dollars, the Jeremiah D. Lalor Scholarship by a friend, the Harvey Lindsley Scholarship by Mrs. Mary R. Matthews, the Newark Scholarship by the will of Henry Rogers, the Ezra Nye Scholarship by F. Wolcott Jackson, the John Joseph Rankin Scholarship by William Rankin, the Laurance Field Stevens Scholarship by Herbert B. Stevens, the Nathaniel W. Townsend Scholarship by Mrs. Daniel Haines, the William Campbell Truesdell Scholarship by Warren N. Truesdell, the Van Sinderen Scholarship by Mr. and Miss Van Sinderen, the Robert Voorhees Scholarship by Mrs. Susan V. Clark, and the Gertrude N. Woodhull Scholarship by Dr. John N. Woodhull.

In 1913 a bequest of one thousand dollars was received from the Estate of Mrs. Mary Hale Chamberlain to endow

the Hale Scholarship in memory of Titus Hale and Mary H. Hale, his wife.

## UNIVERSITY SCHOLARSHIPS

From the income derived from scholarships founded prior to 1903 forty University Scholarships have been established: ten "A" Scholarships of the annual value of two hundred dollars each, and thirty "B" scholarships of the annual value of one hundred and seventy-five dollars each. During the summer these scholarships will be awarded for the first term to members of the senior, junior, and sophomore classes who are candidates for the degree of Bachelor of Arts, Bachelor of Letters, or Bachelor of Science, and who have previously received remission of tuition, in accordance with the following rules:

(*a*) The ten "A" scholarships will be awarded to those students whose standing during the previous year was in the first general group. If more than ten students are eligible, award will be made according to seniority of class.

(*b*) The thirty "B" scholarships will be awarded to those students whose standing during the previous year was in the second general group. If more than thirty students are eligible, award will be made according to seniority of class, except that students eligible for "A" scholarships shall take preference over all others.

University Scholarships are awarded in all cases for one term and subject to the following conditions:

I. The holder must be regular in attendance at his college exercises and free from serious discipline.

II. His general group, as shown by his latest semi-annual report, must not be below that in which he stood when the scholarship was awarded to him.

III. His college bill for one term for board, room rent, light, and heat must not exceed two hundred dollars.

A University Scholar who has fulfilled these conditions during the first term of a college year will receive the scholarship for the second term of that year without further action on his part.

## ENDOWED SCHOLARSHIPS

The endowed scholarships described in the following list may be assigned to students in any undergraduate department of the University unless restricted by the donor to some particular department or departments. The annual stipend of each scholarship at present is one hundred and twenty-five dollars unless another amount is stated. It is customary to assign these scholarships, when they become vacant, to undergraduates who have been members of the University for at least one year, and who are considered most worthy to receive the benefit.

Application for endowed scholarships should be made to the Secretary of the University, Princeton, New Jersey.

THE ELIZABETH VAN CLEVE SCHOLARSHIP: Founded in 1886, by a gift of two thousand dollars, from Hon. Caleb. S. Green, of Trenton, N. J., of the Class of 1837. In 1912 the principal was increased to two thousand five hundred dollars by William E. Green, Esq., of the Class of 1902.

The scholarship is ordinarily assigned to a student in the John C. Green School of Science.

THE WISTAR MORRIS WOOD AND CHARLES MORRIS WOOD SCHOLARSHIP: Founded in 1887, by a gift of two thousand dollars from the Rev. Charles Wood, D.D., of Washington, D.C. In 1908 the principal was increased by two thousand five hundred dollars by the donor. The annual stipend is one hundred dollars.

This fund shall ordinarily in the first instance be given to a member of the junior class, or in case no member of the

junior class answers the conditions, then to any member of the lower classes answering them. Conditions: I. To any foreign missionary's son intending himself to become a foreign missionary; II. To any student proposing to labor in the foreign field; III. To any minister's son studying for the ministry. It shall be understood that the recipient of the fund must possess and keep up superior scholarship.

THE RACHEL LENOX KENNEDY SCHOLARSHIP FUND; with an income of six hundred dollars: Established in 1888 by Miss Rachel Lenox Kennedy, of New York, with a principal of five thousand dallars and increased by the donor in 1890 by a further gift of ten thousand dollars. The income from this fund is used to aid meritorious undergraduates in any department of the University who have maintained high standing in their classes.

THE BUTLER SCHOLARSHIP; with an endowment of two thousand five hundred dollars: Founded in 1892 by William Allen Butler, Jr., of New York, of the Class of 1876, with a gift of one thousand dollars, which has since been increased to two thousand five hundred dollars.

THE MCCORMICK SCHOLARSHIP; a gift of two thousand dollars: Founded in 1894 by Mrs. Cyrus Hall McCormick, of Chicago. The annual stipend is one hundred dollars.

THE WALLACE SCHOLARSHIPS; (two with an income of one hundred and twenty-five dollars each): In 1898 Mrs. R. H. Allen and Miss Wallace, of Newark, N. J., gave five thousand dollars to found two scholarships in memory of their father, William C. Wallace, of the Class of 1823, for the benefit of needy students.

THE JOHN LINN PATTON SCHOLARSHIP: Founded in 1903, with a principal of two thousand five hundred dollars,

by Mr. and Mrs. William A. Patton, of Philadelphia, in memory of their son, John Linn Patton, of the Class of 1903.

THE MAHLON LONG SCHOLARSHIP: Founded in 1904 by Rev. George Wells Ely, of Columbia, Lancaster County, Pa., by a gift of one thousand two hundred and fifty dollars and real estate in Minneapolis, Minn., and Jersey City, N. J., valued at eight thousand seven hundred and fifty dollars.

This scholarship is open to undergraduates, members of either the Academic or Scientific Department, and is intended to be given during the entire course to the same student, although appointments or reappointments may be changed by the person having the power, in his discretion. The donor may, during his life, designate the beneficiary, but in case he should not do so on or before October first of each year, then the President of the University shall designate the beneficiary, selecting a regularly matriculated candidate for a degree, who, in his judgment, is a young man of limited means, of worthy character and capacity, and who gives promise of a useful life. The net income from this scholarship will be used by the beneficiary for tuition and other necessary expenses, but no more than four hundred dollars shall be paid to any one beneficiary annually; whatever excess income there may be to accrue to the benefit of the fund. The annual stipend is at present three hundred and fifty dollars.

THE JOHN H. CONVERSE AND JOHN W. CONVERSE SCHOLARSHIPS (two, with an income of one hundred and twenty-five dollars each): Founded in 1904 by the late John H. Converse, with a principal of five thousand dollars. The privileges of these scholarships are to be extended by

the Faculty to students looking forward to a seminary course and the Christian ministry, the Presbyterian ministry preferred.

THE ROBERT STOCKTON PYNE SCHOLARSHIP: Founded in 1904, with a principal of two thousand five hundred dollars, by Mrs. M. Taylor Pyne, of Princeton, in memory of her son, Robert Stockton Pyne. The annual stipend is one hundred dollars.

THE FREDERICK WOLCOTT JACKSON SCHOLARSHIP: Founded in 1905, by a gift of two thousand five hundred dollars from Philip N. Jackson, of Newark, N. J., of the Class of 1881.

THE ANDREW WHITE GREEN SCHOLARSHIP; with an income of two hundred and fifty dollars: Founded in 1905, with a principal of five thousand dollars, by the late Cornelius C. Cuyler, of the Class of 1879, as executor and sole legatee of Andrew White Green. The income is to be used in aiding some needy and deserving student each year through his college course; the student to be designated by the President or Dean.

THE HENRY S. GANSEVOORT SCHOLARSHIP: Founded in 1906, with a principal of two thousand five hundred dollars, by Mrs. Abraham Lansing, of Albany, N. Y., in memory of her brother, Henry S. Gansevoort, of the Class of 1855.

THE CLASS OF 1878 SCHOLARSHIPS: Dr. John S. Sayre, of the Class of 1878, who died in 1899, made Princeton University his residuary legatee. After creating the Fellowship of Applied Chemistry and the Fellowship of Applied Electricity, the will directs "the balance of my estate, if any, to be used for as many as possible endowed scholar-

ships in the Academic (Classical) Department of the University which are to be known as the Class of 1878 Scholarships." At present there are five scholarships of one hundred and forty-five dollars each under this endowment.

THE GEORGE BLACK REA SCHOLARSHIP; with a principal of two thousand five hundred dollars: Founded in 1908 by Mr. and Mrs. Samuel Rea, of Bryn Mawr, Pa., in memory of their son, George Black Rea, of the Class of 1904. Preference to be given to a student of the Department of Civil Engineering.

THE ALGERNON BROOKE ROBERTS SCHOLARSHIP, CLASS OF 1896: Founded in 1909 with the principal of twenty-five hundred dollars in accordance with a bequest to his mother.

THE DR. ANDREW J. MCCOSH MEMORIAL SCHOLARSHIPS: Founded in 1909 with the principal of ten thousand dollars by the late Mrs. Alexander Maitland in memory of her brother, Andrew J. McCosh, M.D., of the Class of 1877. Preference is given to students in the senior and junior Classes. At present there are two scholarships of one hundred and twenty-five dollars each and two scholarships of one hundred and twenty dollars each under this endowment.

THE JOHN WITHERSPOON SCHOLARSHIP; with an income of one hundred and sixty dollars: Founded in 1909 by the Trustees of the Witherspoon Memorial Association with a gift of four thousand dollars, the unexpended balance of a fund contributed by patriotic citizens for the purpose of erecting a statue in Washington, D. C., to President John Witherspoon.

THE S. STANHOPE ORRIS FUND: Professor S. Stanhope Orris, who died in 1905, bequeathed to Princeton University

"the sum of Twenty-five Thousand Dollars ($25,000) as a fund, the annual income of which will be divided equally among ten needy academic students of good character and ability, of diligence in study, and exemplary behavior. No candidate for the ministry, however, though needy, studious and possessing ability, shall receive help from this fund unless he pledge himself to continue and do continue the study of Greek regularly to the end of the university course." There are ten scholarships of one hundred and twenty dollars each.

THE SUSAN BREESE PACKARD MEMORIAL SCHOLARSHIP AND THE FRANCIS APPLETON PACKARD MEMORIAL SCHOLARSHIP, founded by a bequest of five thousand dollars under the will of Professor William A. Packard, who died in 1909. "The income of these scholarships to be devoted to paying the tuition fees of students in Princeton University pursuing courses of study of which the Greek and Latin languages and literature shall constitute a substantial part. Students of approved scholarship and character who need this aid, and such only, shall be eligible to receive the same."

THE THOMAS AND LUCY KAYE MEMORIAL SCHOLARSHIPS; two, with an income of ninety dollars each; Founded in 1911 by a bequest of five thousand dollars under the will of John William Kaye, of the Class of 1874.

THE WILLIAM ROME GELSTON SCHOLARSHIP; with an income of two hundred and twenty-five dollars: Founded in 1912 with a gift of $5,000 in memory of William R. Gelston, deceased, of the Class of 1901, "the net annual income thereof to be given in each year to such student in the Academic Department of Princeton University regularly matriculated for a degree, as the President of the University shall consider to be a person of capacity and worthy char-

acter, who gives promise of a useful life and is of limited means, such appointee to be designated by said President, and such income shall be used by such appointee, first in the payment of his tuition fees, and the balance shall be used by his in payment of his board and other necessary university expenses."

THE JOHN REID CHRISTIE, JR., SCHOLARSHIP: Endowed in 1913 with the principal of twenty-five hundred dollars, received from the estate of John Reid Christie, Jr., of the Class of 1913, who died during the summer of 1913. The annual stipend is one hundred dollars.

THE NOEL BASSETT SCHOLARSHIP: Founded in 1915 with a gift of twenty-five hundred dollars, by friends of the late Noel Bassett, of the Class of 1911. By the deed of gift, the right to recommend the removal of the incumbent of this scholarship rests with the committee representing the donors, until 1940. The annual stipend is one hundred dollars.

THE PRINCETON CLUB OF CHICAGO UNDERGRADUATE SCHOLARSHIP: Endowed by the Princeton Club of Chicago and open to men in Chicago and upper Illinois. The fund available is six hundred dollars a year for the four years of the undergraduate course, the holder being permitted to draw on the amount annually as his needs may require with the understanding that he will sign notes payable at his convenience after completing his course. Awards are made by a committee of the Princeton Club of Chicago.

THE ROCKY MOUNTAIN PRINCETON CLUB SCHOLARSHIP; with a stipend of two hundred and fifty dollars a year: Awarded for the freshman year to the winner of a competition open to students entering from the high schools

in the city and county of Denver or other accredited high schools of the territory covered by the Rocky Mountain Princeton Club. The competition is held and the award is made by the Scholarship Committee of the Rocky Mountain Princeton Club, Denver, Colo.

THE NEW ENGLAND SCHOLARSHIPS: Offered each year by the Princeton Alumni Association of New England to residents of New England.

These scholarships, eight in number, are awarded on the Rhodes Scholarship plan. Four of them carry a payment of $500 a year for four years, and four a payment of $250 a year for four years.

To be eligible a candidate must have passed the College Entrance Board Examinations and must then appear before the Committee of Selection, composed of the President and Treasurer of the Princeton Alumni Association of New England, and a representative of the Graduate Council of Princeton University.

Applications should be made to John S. Nicholl, Esq., Secretary of the Princeton Alumni Association of New England, 491 Main Street, Cambridge, Mass.

THE MAINE SCHOLARSHIP: Offered anonymously each year, on the Rhodes Scholarship plan, through the Princeton Alumni Association of New England, to candidates from Maine, and paying $500 a year for four years. The eligibility rules are those of the New England Scholarships.

Applications should be made to John S. Nicholl, Esq., Secretary of the Princeton Alumni Association of New England, 491 Main St., Cambridge, Mass.

PRINCETON ALUMNI ASSOCIATION OF WESTERN PENNSYLVANIA SCHOLARSHIPS: Ten or more scholarships, each

paying $250 per year for four years, are open to members of the graduating class in accredited high and private schools within the territory covered by the Association, which in general embraces Western Pennsylvania, Eastern Ohio and West Virginia. All awards are made on a competitive basis, after full investigation by the Scholarship Committee of the Association. Further information may be obtained from the Secretary, W. E. Hague, Esq., Jones Law Building, Pittsburgh, Pa.

PHILADELPHIA DISTRICT REGIONAL SCHOLARSHIP: Offered by the Princeton Club of Philadelphia each year and paying $250. a year. Awarded on the Rhodes Scholarship plan and open for competition to candidates needing financial assistance and entering Princeton from any school within the district embracing in general Atlantic City, N. J., to Harrisburg, Pa., and Morrisville, Pa., to Wilmington, Del.

For particulars apply to H. C. Potter, Jr., Esq., Chairman, Scholarship Committee, 1223 Locust St., Philadelphia, Pa.

PRINCETON CLUB OF SOUTHERN CALIFORNIA REGIONAL SCHOLARSHIP: Awarded on the Rhodes Scholarship plan and paying $250. a year for four years. For particulars apply to D. S. Hammack, Esq., 419 American Bank Building, Los Angeles, California.

ARTHUR L. WHEELER MEMORIAL SCHOLARSHIP: Founded in memory of Arthur Ledlie Wheeler, Class of 1896; to be held four years and paying $500. a year during freshman and sophomore years, and $400. a year during junior and senior years; awarded to that entering candidate who in the opinion of the Scholarship Committee most nearly satisfies the qualifications required by the Rhodes Scholarships. These are:

"In accordance with the wish of Mr. Rhodes, the Trus-

tees desire that in the selection of a student to a Scholarship regard shall be had to (1) his literary and scholastic attainments; (2) his fondness for and success in manly outdoor sports, such as cricket, football and the like; (3) his qualities of manhood, truth, courage, devotion to duty, sympathy for and protection of the weak, kindliness, unselfishness and fellowship; and (4) his exhibition during school days, of moral force of character and of his instincts to lead and take an interest in his schoolmates."

To these has been added by the Committee, need of financial assistance, although the Scholarship is not limited to boys needing such assistance. For particulars apply to Dr. Charles Browne, Princeton, N. J.

## ENDOWMENT AND ADMINISTRATION OF SCHOLARSHIPS

The following rules for the endowment and administration of scholarships have been adopted by the Trustees:

I. A scholarship available in any undergraduate department may be endowed by the payment to the Treasurer of a sum of not less than twenty-five hundred dollars. Unless otherwise specified by the donor, the endowment of a scholarship will be invested with the general funds of the University and the incumbent will receive as an annual stipend the income of the endowment at the prevailing rate of interest.

II. The right to nominate the incumbent of a scholarship shall rest with the donor, if an individual, during his or her lifetime, or if an institution or alumni association, for a period of twenty-five years. At the end of this period or at the death of the donor the right of nomination shall revert and rest with the Faculty of the University.

III. All scholarships shall be held subject to such rules as may be adopted from time to time by the Faculty of the University.

## FUNDS FOR CANDIDATES FOR THE MINISTRY

THE RICHARDS FUND: A bequest of Mrs. Esther Richards, of New York, amounting to $2,970.32, for the benefit of candidates for the ministry. Received in 1790.

THE LESLIE FUND: A bequest of James Leslie, of New York, of the Class of 1759, amounting to $10,677.49, for "the education of poor and pious youths with a view to the ministry of the Gospel in the Presbyterian Church." Received in 1792.

THE HODGE FUND: A bequest of Hugh Hodge, of Philadelphia, of a house and lot on Market Street, above Second (No. 205) "to be held by the Trustees in trust, to lease out from time to time, and the rents to be applied to the support and education of pious youths for the ministry." Received in 1805.

For application blanks for aid from the funds for candidates for the ministry apply to the Secretary of the University, Princeton, New Jersey.

## CHARITABLE FUNDS

THE VAN ARSDALE FUND: A bequest of Robert Van Arsdale, of Newark, N. J., of the Class of 1826, amounting to $3,000, "in trust for promoting charitable instruction in the College of New Jersey, according to the discretion of the Faculty." Received in 1875.

Applications for aid from the Van Arsdale Fund should be made to Professor Howard McClenahan, Dean of the College.

# BUREAU OF STUDENT SELF-HELP

The Bureau of Student Self-Help is managed under the direction of the Secretary of the University, for the purpose of providing opportunities for remunerative employment to students who must earn part of their college expenses. All students who are obliged to earn money during their college course are advised to register with this Bureau.

Further information may be obtained from Mr. George McF. Galt, Secretary of the Bureau of Student Self-Help, 32 Mercer St., Princeton, N. J.

# PART XI

## DEGREES AND HONORS, 1917-1918

# DEGREES CONFERRED, 1917-1918

## DEGREES IN COURSE CONFERRED 1917-1918

*Ph.D.*—Albert Billheimer, A.B., *Gettysburg College,* 1906.
Frank Randall Pratt, B.S. *Rutgers College,* 1906.
*Sc.D.*—Harry Hamilton Laughlin (as of June, 1917).
*A.M.*—William Brewer Connett, Litt.B. *Princeton University,* 1914.
Henry Roy Brahana, A.B. *Dartmouth College,* 1916.

### DEGREES IN COURSE CONFERRED JANUARY 10, 1918

*Ph.D.*—Nathaniel Howell Furman, B.S. *Princeton University,* 1913.
*A.M. on Thesis*—David Robert Jones, A.B. *Princeton University,* 1907.
*A.M. in Course*—George Blackburn Kinkead, A.B. *Princeton University,* 1870.
*A.B.*—Herbert N. Odell, as of the Class of 1917.

### DEGREES IN COURSE CONFERRED APRIL 11, 1918

*Ph.D.*—Robert Cameron Colwell, A.B. *Harvard University,* 1907.
*C.E.*—Thomas James Caine, as of the Class of 1915.
*Litt.B.*—William Stuart Annin, as of the Class of 1917.
*C.E.*—Michael Augustine Charles, as of the Class of 1917.

# HONORS CONFERRED, 1917-1918

LATIN SALUTATORY
Lee Carrington Bradley, Jr.
VALEDICTORY
Sinclair Wallace Armstrong
HONORARY DEGREES CONFERRED JUNE 15, 1918

*D.Sc.*—Arthur Louis Day.
*Litt.D.*—Albert Stanburrough Cook.
Booth Tarkington.
*LL.D.*—Henry Sturgis Drinker.
John George Milburn.
Benjamin Strong.
Henry Pomeroy Davison.
Rufus Isaacs, the Right Hon. the Earl of Reading.

DEGREES IN COURSE CONFERRED JUNE 15, 1918

DOCTOR OF PHILOSOPHY (*Ph.D.*) ..... 9

Albert Billheimer, A.B., *Gettysburg College,* 1906; A.M., *Princeton University,* 1910. Subject, Classics. Thesis, "Naturalization in Athenian Law and Practice."

Arthur Edwin Bye, B.S., *University of Pennsylvania,* 1911; A.M., *Princeton University,* 1914. Subject, Art and Archaeology. Thesis, "Coptic Style."

William Egbert Cockfield, A.B., *McGill University,* 1913; B.S., *McGill University,* 1914; M.Sc., *McGill University,* 1915. Subject, Geology. Thesis, "The Sixtymile and Ladue River District, Yukon Territory."

Robert Cameron Colwell, A.B., *Harvard University,* 1907; A.M., *University of New Brunswick,* 1908. Subject, Physics. Thesis, "Electromagnetic Oscillations From a Bent Antenna."

Nathaniel Howell Furman, B.S., *Princeton University,* 1913; A.M., *Princeton University,* 1915. Subject, Chemistry. Thesis, "The use of Hydrofluoric Acid in Analysis and the Behavior of Stannic Fluoride in Solution."

Antony Pastor Giraud, B.S., *University of Seville* (Spain), 1909; A.M., *Princeton University,* 1917. Subject, Geology. Thesis,

"Silurian and Lower Devonian Coral Formations of Eastern New York and Vicinity."

Frank Randall Pratt, B.S., *Rutgers College,* 1906; M.S., *Rutgers College,* 1908. Subject, Physics. Thesis, "Heats of Dilution and Their Variations with Temperature."

Carl Caskey Speidel, Ph.B., *Lafayette College,* 1914. Subject, Biology. Thesis, "Gland Cells of Internal Secretion in The Spinal Cord of The Skates, Raiidae."

Herbert Theberath Weiskotten, A.B., *Columbia University,* 1914; A.M., *Princeton University,* 1915. Subject, Classics. Thesis, *"Vita Sancti Augustini"* by Possidius.

DOCTOR OF SCIENCE (*D.Sc.*) ..... 1

Harry Hamilton Laughlin, B.S., *North Missouri State Normal School,* 1900; M.S., *Princeton University,* October 1916. Subject, Biology. Thesis, "Determining The Relative Duration of The Several Mitotic Stages."

MASTER OF ARTS (*A. M.*) ON EXAMINATION ..... 22

Joseph Minton Batten, A.B., *Randolph-Macon College,* 1912; A.M., *Randolph-Macon College,* 1912.

Maitland Belknap, Litt.B., *Princeton University,* 1912.

Philip Ten Broeck Bissel, A.B., *Hamilton College,* 1917.

Hunter Bryson Blakely, A.B., *Erskine College,* 1914.

Arthur Victor Boand, A.B., *Westminster College (Mo.),* 1916.

Henry Roy Brahana, A.B., *Dartmouth College,* 1916.

Robert Archibald Brotemarkle, A.B., *Princeton University,* 1916.

Leonard Victor Buschman, A.B., *Westminster College (Mo.),* 1915.

Samuel McClellan Butt, A.B., *Princeton University,* 1917.

Thomas Derby Carey, A.B., *Lafayette College,* 1916.

Fitzhugh Lee Carmichael, A.B., *University of Alabama,* 1913; A.M., *University of Alabama,* 1917.

Robert Clarke, B.S., *Geneva College,* 1898.

William Brewer Connett, Litt.B., *Princeton University,* 1914.

Stanley Smith Dickson, A.B., *Centre College,* 1917.

Hastings Eells, A.B., *Clark University,* 1916.

Walter James Greenleaf, A.B., *Bowdoin College,* 1912.

Permanand Samuels-Lall, B.Sc., *Punjab University (India),* 1904; A.M., *Punjab University,* 1910.

Ward Willis Long, A.B., *Taylor University,* 1915.

Stewart MacMaster Robinson, A.B., *Princeton University,* 1915.

Reginald Rowland, A.B., *Princeton University*, 1915.
Theodore Brainerd Hunt, Litt.B., *Princeton University*, 1917.
Ainsworth O'Brien-Moore, A.B., *Princeton University*, 1916.

MASTER OF ARTS ON THESIS (*A.M.*) ..... 1

David Robert Jones, A.B., *Princeton University*, 1907.

BACHELOR OF ARTS (*A. B.*) ..... 26

John Henry Barrett
William Black
Johnston Alexander Bowman
Joseph Clark Buchanan
Alfred Ellison Christie
Holmes Van Mater Dennis, 3rd
Henry Millington Dubbs, Jr.
William Grinstead Duncan
Lewis Barr Flinn
Alfred Adams Gillette
Israel Goldstein
Donald Goodchild
Edgerton Hazard
Pomeroy Jardon Herron
Samuel Davidson Herron
Thomas Saxton Ireland
John Owen McNulty
Francis Armstrong Middleditch
Clark Miller
George Frederick Morgan, Jr.
Percy Parker, Jr.
Harding Sanford Roche
Wolfgang Simon Schwabacher
Henry DeWolf Smyth
Ernest Louis Vogt
Joseph Milliken Woods, Jr.

BACHELOR OF LETTERS (*Litt.B.*) ..... 39

Sinclair Wallace Armstrong
David Ralph Jaques Arnold
Thomas Everett Babson
Paul Thurman Barnum
Leo Blumberg
Carl Windus Bonbright
William McKnight Bowman
Lee Carrington Bradley, Jr.
Francis Theodore Bryan, IV.
Lucius McCutchen Butts
Alexander Burton Carver
George Denison Cherry
Norman Hilliard Cooper
Frederick Ralph Crane
James Creese, Jr.
Carl Reese Eaby, Jr
Thomas Hopkins English
Samuel Godfrey
Welsey Thompson Hammer
Henry Liebmann Heimerdinger
James McLain Jones
Bedros Kazanjian, Jr.
Louis Fairbanks Kendall
Ira Tullis Lampley
William Britton Manee
William Bryan Marvin
William Stephens Mayer
Walter Harold Millinger
Arthur Benson Murray
Harold Miguel Planas
John Millington Rankin
Jordan Ralston Scobie
Douglas Cumming Sinclaire
Stuart Riddle Stevenson
Charles Irving Stewart
John Chestnut Taylor, Jr.
Kuochun Penn Wang
Hans Adolf Karl Widenmann
Tseng-Yu Wu

BACHELOR OF SCIENCE (*B.S.*) ..... 5

Edmund Hoffecker Kerper
Munson Harmon Lane
George Knox McIlwain
Julius Lane Wilson
James Harold Stewart

CIVIL ENGINEER (*C.E.*) ..... 4

James Apker Foster, Jr.
Earl Parker Gowing
William Weightman Meirs
Harry Aaron Sipe

## FINAL SPECIAL HONORS

### Philosophy and Psychology

*High Honors*—Charles Irving Stewart.

### History and Politics

*Highest Honors*—Lee Carrington Bradley, Jr.
*High Honors*—William Bryan Marvin.
*Honors*—Alfred Adams Gillette, John Millington Rankin.

### Economics and Social Institutions

*High Honors*—Leo Blumberg
*Honors*—Francis Armstrong Middleditch, Walter Harold Millinger, Hans Adolf Carl Widenmann.

### Classics

*Highest Honors*—Holmes Van Mater Dennis, 3rd.
*High Honors*—Johnston Alexander Bowman.

### Modern Languages

#### Germanic

*High Honors*—Donald Goodchild.

### Mathematics and Physics

*Highest Honors*—Henry De Wolf Smyth, James Harold Stewart.
*High Honors*—George Knox McIlwain.

### Biology

*Honors*—Israel Goldstein.

## SENIOR PRIZEMEN

### Lynde Debate Prizes

*First*—John Chestnut Taylor, Jr.
*Second*—Wolfgang Simon Schwabacher.
*Third*—Laurence Milton Sears.

### Baird Prizes

*The Baird Prize*—Lawrence Milton Sears.
*Oratory*—John Chestnut Taylor, Jr.
*Delivery*—Roland Bruce Lutz.
*Poetry*—James Creese, Jr.
*Disputation, First*—John Chestnut Taylor, Jr.
*Disputation, Second*—Leo Blumberg.

### Class of 1859 Prize

Thomas Hopkins English

### Class of 1869 Prize in Ethics

Charles Irving Stewart

### C. O. Joline Prize in American Political History

William Bryan Marvin

### Lyman H. Atwater Prize in Political Science

Kuochun Penn Wang
*Honorable Mention*—Ernest Louis Vogt

### Class of 1876 Memorial Prize

John Chestnut Taylor, Jr.

### Frederick Barnard White Prize in Architecture

Wyckoff Keach

### Philo Sherman Bennett Prize in Political Science

Alfred Ellison Christie

### Class of 1870 Prizes in Old English

Joseph Milliken Woods, Jr.
Samuel Davidson Herron

MANNERS PRIZE—WINNER OF THE GOLDEN TIGER
James Creese, Jr.

GARRETT PRIZE IN SOUTH AMERICAN HISTORY
Leo Blumberg

BARNUM PRIZE IN HISTORY
Leo Blumberg

LAWRENCE HUTTON PRIZE IN HISTORY
William Bryan Marvin

CLASS OF 1895 MILITARY PRIZE
Lee Carrington Bradley, Jr.
*Honorable Mention*—John Kelly Strubing, Jr.

## JUNIOR PRIZEMEN

JUNIOR FIRST HONOR PRIZE
Divided equally between Paul Robinson Norton and Ralph Dyer McKee

JUNIOR ORATOR MEDALS
*First*—David Mandel.
*Second*—Robert Hayes Dunn.
*Third*—William Barthold Kloppenburg
*Fourth*—Randolph Clothier Sailer.

MACLEAN PRIZE
Robert Hayes Dunn

DICKINSON PRIZE
Norman Walter Haring

ALDEN MEMORIAL PRIZES IN FRENCH
*First*—Lochren Donnelley
*Second*—No award

THOMAS B. WANAMAKER ENGLISH LANGUAGE PRIZE
Harry Pardee Keller

CLASS OF 1870 JUNIOR PRIZE IN ENGLISH
Sydney Baldwin Self

CLASS OF 1883 ENGLISH PRIZE
Arthur Edward Windels
*Honorable Mention*—Sydney Baldwin Self

## SOPHOMORE PRIZEMEN

THE STINNECKE SCHOLARSHIP
Rensselaer Wright Lee

CLASS OF 1861 PRIZE
Richard Hartshorne

CLASS OF 1870 SOPHOMORE ENGLISH PRIZE
Furman Addison De Maris, Jr.

FRANCIS BIDDLE SOPHOMORE ESSAY PRIZE
Furman Addison De Maris, Jr.

## FRESHMAN PRIZEMEN

CLASS OF 1883 FRESHMEN ENGLISH PRIZE IN THE SCHOOL OF SCIENCE
Elmer Bloomfield Greey

# PART XII

## ALUMNI REPRESENTATION, GRADUATE COUNCIL AND ALUMNI ASSOCIATIONS

# PLAN OF ALUMNI REPRESENTATION IN THE BOARD OF TRUSTEES

1. The Board of Trustees of Princeton University shall be enlarged by the addition of five members to be known as Alumni Trustees, one to be elected yearly, and to be eligible for re-election, who shall hold office for a term of five years from and after their election.

2. No one shall be eligible for election as an Alumni Trustee except a graduate of Princeton University of not less than ten years' standing. All graduates of Princeton University of not less than three years' standing, who have paid the enrolment fee of one dollar, shall be entitled to nominate and vote for Alumni Trustees at any election. If, however, during a period of five consecutive years, an enrolled graduate shall not have availed himself of the privilege of nominating or voting for Alumni Trustees his name shall be removed from the list, and it can be restored again only upon his application and the payment of another enrolment fee.

3. The Alumni Trustees shall elect a Secretary of the Alumni, who shall also act as Treasurer, and they shall fix his term of service and compensation, which shall be paid from the enrolment fees. He shall have charge of the enrolment and shall expend the fees received for such purposes as may be authorized by the Alumni Trustees. No member of the Faculty or Board of Trustees shall act as secretary.

4. In January of each year the secretary shall issue a call for the nomination of candidates to be voted for at the next election. Nominations must be signed and forwarded to the secretary before the first of April, on which date nominations shall close. Only those who have been nominated by at least twenty enrolled graduates shall be candidates for election. On or before the first of May of each year the secretary shall send to every enrolled graduate an official ballot with directions how to mark the same, and a return envelope marked confidential and addressed to the secretary. Whenever there shall be more than one candidate for any one Trusteeship the secretary shall send with every official ballot a printed list containing the names and addresses of all the candidates for such

Trusteeship together with the names and addresses of those proposing them. An enrolled graduate who has lost or failed to receive the original official ballot sent to him shall be entitled to receive a duplicate ballot upon application to the Secretary.

5. The annual election for Alumni Trustees shall be held in Princeton on Commencement day, and the polls shall close at 1 p. m. The Secretary, a member of the Faculty and a member of the Board of Trustees, to be appointed by their respective bodies, shall act as tellers and have entire charge of the elections. The tellers shall act by a majority, and in case of the absence or disability of any teller the President of the University shall name a substitute or substitutes to fill any vacancies so existing. Electors may cast their ballots in person or by mail, and all ballots received by the secretary shall be held by him unopened until after the closing of the polls, when they shall be delivered to the tellers. The tellers before entering upon their duties shall take an oath that they will conduct the election fairly and will not reveal to anyone how any elector has voted.

6. Within twenty-four hours after the closing of the polls the tellers shall open the ballots received from the secretary, complete the count of the vote, and certify in writing to the Board of Trustees the name of the candidate or candidates receiving the highest number of votes, and also the number of votes received by each candidate. They shall make public the name of the Trustee or Trustees so elected, but shall not divulge the number of votes cast for the various candidates. In case of a tie vote, the election shall be decided by the drawing of lots.

7. Any vacancy occurring among the Alumni Trustees by death, resignation, or otherwise, shall be filled at the next election in the manner prescribed in sections 4 and 5 of this plan.

[For list of present Alumni Trustees, see page 18.]

# THE GRADUATE COUNCIL OF PRINCETON UNIVERSITY

*Chairman:* Ambrose G. Todd, 165 Broadway, New York, N. Y.
*Vice-Chairman:* Walter E. Hope, 49 Wall St., New York, N. Y.
*Acting Secretary:* V. L. Collins, Princeton, N. J.

---

*Committee on Finance. Chairman:* H. C. Irons '89, 101 Park Avenue, New York, N. Y.

*Committee on Class Organization. Chairman:* F. P. King '00, 32 Liberty St., New York, N. Y.

*Committee on Schools. Chairman:* S. G. Etherington '06, 50 E. 42d St., New York, N. Y.

*Committee on Publicity. Chairman:* A. C. Imbrie '95, 320 Broadway, New York, N. Y.

*Committee on Undergraduate Activities. Chairman:* W. E. Hope '01, 49 Wall St., New York, N. Y.

*Committee on Alumni Associations. Chairman:* C. H. Higgins '03, 165 Broadway, New York, N. Y.

---

*Class Representatives:*

'84 A. G. Todd, 165 Broadway, New York, N. Y.
'85 J. Woods Brown, 1510 Walnut St., Philadelphia, Pa.
'86 W. F. Timlow, 7 Wall St., New York, N. Y.
'87 Hon. John W. Queen, 15 Exchange Place, Jersey City, N. J.
'88 Dr. B. vanD. Hedges, 518 Watchung Ave., Plainfield, N. J.
'89 Henry C. Irons, 101 Park Ave., New York, N. J.
'90 John I. Bright, Otis Bldg., Philadelphia, Pa.
'91 Edgar A. Poe, 1604 Park Ave., Baltimore, Md.
'92 V. L. Collins, Princeton, N. J.
'93 Martin Saxe, 27 Pine Street, New York, N. Y.
'94 Malcolm Lloyd, Jr., 1404 Land Title Bldg., Philadelphia, Pa.
'95 Dickson Q. Brown, 11 Broadway, New York, N. Y.
'96 Dr. Charles Browne, Princeton, N. J.
'97 John M. Frame, 526 Washington St., Reading, Pa.
'98 Albert E. McVitty, 303 Vine St., Philadelphia, Pa.

'99 J. H. Harrison, 810 Broad St., Newark, N. J.
'00 F. P. King, 32 Liberty St., New York, N. Y.
'01 W. E. Hope, 49 Wall St., New York, N. Y.
'02 Charles A. Cass, 200 Fifth Ave., New York, N. Y.
'03 Albridge C. Smith, Jr., 24 Broad St., New York, N. Y.
'04 Howard H. Henry, Fort Washington, Pa.
'05 Charles H. Mathews, 1539 Chestnut St., Philadelphia, Pa.
'06 Sanford G. Etherington, 50 E. 42nd St., New York, N. Y.
'07 Gordon S. Rentschler, Hamilton, Ohio.
'08 A. C. Studer, Jr., Montclair, N. J.
'09 Harry G. Treadwell, 132 W. 183rd St., New York, N. Y.
'10 Richard F. Weeks, 61 Broadway, New York, N. Y.
'11 Maitland Dwight, 2131 Bancroft Pl., Washington, D. C.
'12 Ralph Higgins, 165 Broadway, New York, N. Y.
'13 Alden D. Groff, 46 Cedar St., New York, N. Y.
'14 Harold C. Stuart, 63 E. 74th St., New York, N. Y.
'15 James C. Healey, 507 West St., New York, N. Y.
'16 Harold D. Harvey, 39 Cortland St., New York, N. Y.
'17 John Stevens, Box 65, Princeton, N. J.
'18 Lewis B. Flinn, Johns Hopkins Medical School, Baltimore, Md.

*Members at Large:*

Francis Speir '77, 52 Wall St., New York, N. Y.
Francis G. Landon '81, 131 E. 65th St., New York, N. Y.
William T. Vlymen '81, Hempstead, N. Y.
W. S. Arbuthnot '87, 801 Penn Ave., Pittsburgh, Pa.
P. A. Rollins '89, 32 Nassau St., New York, N. Y.
Glenn Ford McKinney '91, 52 William St., New York, N. Y.
L. C. Woods '91, Frick Bldg., Pittsburgh, Pa.
George C. Fraser '93, 20 Exchange Place, New York, N. Y.
James McC. Mitchell '94, Marine Bank Building, Buffalo, N. Y.
Andrew C. Imbrie '95, 320 Broadway, New York, N. Y.
Emory L. Ford '96, Ford Bldg., Detroit, Mich.
H. C. Potter, Jr., '98, 605 Chestnut St., Philadelphia, Pa.
C. H. Higgins '03, 123 E. 38th St., New York, N. Y.
Robert H. Jones '06, 809 Third National Bank Bldg., Atlanta, Ga.

*District Representatives:*

N. Booth Tarkington '93, 1100 Penn Ave., Indianapolis, Ind.
Charles L. Hamilton '95, 815 Liberty Ave., Pittsburgh, Pa.
Calvin Fentress '01, 208 So. La Salle St., Chicago, Ill.

John L. Davis '00, Third National Bank Building, St. Louis, Mo.
Daniel S. Hammock '06, 419 American Bank Bldg., Los Angeles, Cal.

## GRADUATE COUNCIL DEPARTMENT CONFERENCE COMMITTEES

*Economics and Social Institutions:* George C. Fraser '93, *Chairman;* Adrian H. Larkin '87, Frederick Strauss, Benjamin Strong, John A. Campbell '77.

*Classics:* Arthur H. Scribner '81, *Chairman;* Philip A. Rollins '89, Robert C. McNamara '03, Frank A. Vanderlip, Paul D. Cravath.

*History and Politics:* Frederick P. King '00, *Chairman;* A. G. Todd '84, C. W. Halsey '98, Robert Lansing, Charles D. Norton, William M. Sloane.

*Astronomy:* John Larkin '82, *Chairman;* A. A. Gulick '97, A. D. Russell.

*Geology and Palaeontology:* Philip A. Rollins '89, *Chairman;* Francis Speir '77.

*Civil Engineering:* Wilbur C. Fisk '90, *Chairman;* Knox Taylor '95, William P. Field '83, Gabriel S. Brown '94, Francis O. Blackwell '87, Jasper Crane '01, Dickson Q. Brown '95, Charles H. Higgins '03, General George W. Goethals.

*Chemistry:* Charles A. Munn '81, *Chairman;* Emory L. Ford '96, Charles H. Higgins '03.

# ALUMNI ASSOCIATIONS

WESTERN ASSOCIATION OF PRINCETON CLUBS
*Secretary,* Edward W. Hamilton, Esq., '96, Marine National Bank Building, Buffalo, N. Y.

PRINCETON ENGINEERING ASSOCIATION
*Secretary,* Charles H. Higgins, Esq., 1903, 123 E. 38th St., New York, N. Y.

## ARKANSAS

PRINCETON ALUMNI ASSOCIATION OF ARKANSAS
*Secretary,* A. H. Scott, 1908, 1017 Southern Trust Bldg., Little Rock, Ark.

## CALIFORNIA

PRINCETON CLUB OF SOUTHERN CALIFORNIA
*Secretary,* D. S. Hammack, 1906, 419 American Bank Bldg., Los Angeles, Cal.

PRINCETON ALUMNI ASSOCIATION OF NORTHERN CALIFORNIA AND NEVADA
*Secretary,* R. F. Coyle, 1907, 3008 Benvenue Ave., Berkeley, Cal.

## COLORADO

ROCKY MOUNTAIN PRINCETON CLUB
*Secretary,* L. R. Kendrick, Esq., 1910, 205 Logan St., Denver, Colorado.

## DELAWARE

PRINCETON ALUMNI ASSOCIATION OF DELAWARE
*Secretary,* John F. Neary, Esq., 1900, duPont Bldg., Wilmington, Delaware.

## DISTRICT OF COLUMBIA

PRINCETON ALUMNI ASSOCIATION OF THE DISTRICT OF COLUMBIA
*Secretary* George G. Cornwell, Esq., 1908, 1415 H St., Washington, D. C.

## GEORGIA

PRINCETON ALUMNI ASSOCIATION OF ATLANTA
*Secretary,* Carl Fox, 1904, 8 Gilmer St., Atlanta, Ga.

## IDAHO

PRINCETON ALUMNI ASSOCIATION OF IDAHO

*Secretary,* P. B. Carter, Esq., 1905, 310 Boise City National Bank Bldg., Boise, Idaho.

## ILLINOIS

PRINCETON CLUB OF CHICAGO

*Secretary,* Elliot R. Andrews, Esq., 1908, 108 W. Lake St., Chicago, Ill.

## INDIANA

PRINCETON ALUMNI ASSOCIATION OF INDIANA

*Secretary,* Thomas A. Hendricks, Esq., 1915, 1127 No. Meridian St., Indianapolis, Ind.

## IOWA

PRINCETON CLUB OF CEDAR RAPIDS

*Secretary,* Arthur Poe, Esq., 1900, care of Quaker Oats Co., Cedar Rapids, Iowa.

## KENTUCKY

PRINCETON ALUMNI ASSOCIATION OF LOUISVILLE

*Secretary,* Neville Miller, 1916, 1454 Fourth St., Louisville, Ky.

## MARYLAND

PRINCETON ALUMNI ASSOCIATION OF MARYLAND

*Secretary,* Horatio W. Turner, Esq., 1909, 906 Garrett Building, Baltimore, Md.

## MASSACHUSETTS

PRINCETON ALUMNI ASSOCIATION OF NEW ENGLAND

*Secretary,* Warren P. Hosmer, Esq., 1908, 491 Main St., Cambridge, Mass.

## MICHIGAN

PRINCETON ALUMNI ASSOCIATION OF MICHIGAN

*Secretary,* Malcomb McKinnon, Esq., 1909, 1319 Dime Bank Bldg., Detroit, Mich.

## MINNESOTA

PRINCETON ALUMNI ASSOCIATION OF THE NORTHWEST
*Secretary,* Edward Karow, Esq., 1905, Twin City Rapid Transit Company, Minneapolis, Minn.

## MISSOURI

PRINCETON CLUB OF KANSAS CITY
*Secretary,* John C. Long Esq., 1903, 3332 Summit St., Kansas City, Mo.

PRINCETON CLUB OF ST. LOUIS
*Secretary,* John S. Lionberger, Esq., 1911, 37 Westmoreland Pl., St. Louis, Mo.

## NEBRASKA

PRINCETON ALUMNI ASSOCIATION OF NEBRASKA
*Secretary,* Arthur R. Wells, Esq., '95, 524 Omaha National Bank Bldg., Omaha, Neb.

## NEW JERSEY

PRINCETON ALUMNI ASSOCIATION OF NORTHERN NEW JERSEY
*Secretary,* Arthur P. Washburn, Esq., 1907, 432 Fourth Ave., New York, N. Y.

PRINCETON ALUMNI ASSOCIATION OF HUDSON COUNTY, N. J.
*Secretary,* Otto F. Seggel, Esq., 1903, 358 Central Ave., Jersey City, N. J.

PRINCETON ALUMNI ASSOCIATION OF MONTCLAIR AND VICINITY
*Secretary,* Benjamin E. Messler, Esq., 1903, Holland Terrace, Montclair N. J.

PRINCETON CLUB OF NEWARK
*Secretary,* Harry F. Bliss, Esq., 1906, 240 Grafton Ave., Newark, New Jersey.

PRINCETON ALUMNI FEDERATION OF NEW JERSEY
*Secretary,* Howard Carter, Esq., 1901, 100 Broadway, New York, N. Y.

PRINCETON ALUMNI ASSOCIATION OF THE ORANGES
*Secretary,* E. C. Vandyke, Esq., 1902, Turrell Ave., S. Orange, N. J.

PRINCETON ALUMNI ASSOCIATION OF PASSAIC COUNTY
*Secretary,* Robert Williams, Esq., '81, 385 Park Ave., Paterson, N. J.

PRINCETON CLUB OF PLAINFIELD
*Secretary,* Albert D. Beers, Esq., 1907, 420 Stelle Ave., Plainfield, N. J.

PRINCETON CLUB OF TRENTON
*Secretary,* Edward D. Miers, Esq., 1908, American Mechanics Bldg., Trenton, N. J.

## NEW YORK

PRINCETON ALUMNI ASSOCIATION OF NORTHERN NEW YORK
*Secretary,* Newton R. Cass, Esq., 1909, The Delaware & Hudson Co., Albany, N. Y.

PRINCETON ALUMNI ASSOCIATION OF LONG ISLAND
*Secretary,* Christopher D. Robert, Esq., 1904, 261 Hicks St., Brooklyn, N. Y.

PRINCETON CLUB OF BUFFALO
*Secretary,* Marshall Coxe, Esq., 1906, 45 Manchester Pl., Buffalo, N. Y.

PRINCETON CLUB OF NEW YORK
*Secretary,* Witherbee Black, Esq., '01, 594 Fifth Avenue, New York, N. Y.

PRINCETON ALUMNI ASSOCIATION OF ROCHESTER, N. Y., AND VICINITY
*Secretary,* Richard Macy Harris, Esq,. 1915, 1127 East Avenue, Rochester, N. Y.

PRINCETON ALUMNI ASSOCIATION OF SOUTHERN NEW YORK AND CONNECTICUT
*Secretary,* Frank Spencer, Esq., 1905, 55 Wall St., New York, N. Y.

PRINCETON ALUMNI ASSOCIATION OF CENTRAL NEW YORK
*Secretary,* Stuart F. Raleigh, Esq., 1911, care of Merrell-Soule Co., Syracuse, N. Y.

## OHIO

PRINCETON ALUMNI ASSOCIATION OF CINCINNATI
*Secretary,* Loren G. Gatch, Esq., 1913, 1712 First National Bank Building, Cincinnati, Ohio.

PRINCETON ALUMNI ASSOCIATION OF NORTHERN OHIO
*Secretary,* John H. Drummond, Esq., 1911, 440 Guardian Bldg., Cleveland, Ohio.

PRINCETON ALUMNI ASSOCIATION OF COLUMBUS AND VICINITY
*Secretary,* Herbert B. Halliday, Esq., 1905, Citizens Trust and Savings Bank Bldg., Columbus, Ohio.

PRINCETON ALUMNI ASSOCIATION OF TOLEDO
*Secretary,* Dr. William G. Dice, '93, 240 Michigan St., Toledo, Ohio.

## PENNSYLVANIA

PRINCETON ALUMNI ASSOCIATION OF ERIE
*Secretary,* Spencer A. Sisson, Esq., 1912, 722 State St., Erie, Pa.
CENTRAL PENNSYLVANIA ALUMNI ASSOCIATION OF PRINCETON UNIVERSITY
*Secretary,* W. H. Musser, Esq., '96, 216 N. Second St., Harrisburg, Pa.
PRINCETON CLUB OF PHILADELPHIA
*Secretary,* Walter D. Kimball, 1905, 726 Perry Bldg., Philadelphia, Pa.
PRINCETON ALUMNI ASSOCIATION OF WESTERN PENNSYLVANIA
*Secretary,* W. E. Hague, Esq., 1904, Jones Law Building, Pittsburgh, Pa.
PRINCETON ALUMNI ASSOCIATION OF NORTHEASTERN PENNSYLVANIA
*Secretary,* Gilbert S. McClintock, Esq., 1908, 34 South River St., Wilkes-Barre, Pa.

## TENNESSEE

PRINCETON ALUMNI ASSOCIATION OF TENNESSEE
*Secretary,* Walter H. Watkins, Esq., 1909, Hamilton National Bank Bldg., Chattanooga, Tenn.

## TEXAS

THE BORDER ASSOCIATION
*Secretary,* C. M. Nebeker, Esq., 1913, State National Bank, El Paso, Texas.
PRINCETON ALUMNI ASSOCIATION OF TEXAS
*Secretary,* Charles C. Cresson, Jr., Esq., '95, Alamo Bank Bldg., San Antonio, Texas.

## UTAH

PRINCETON ALUMNI ASSOCIATION OF SALT LAKE CITY
*Secretary,* Renwick S. McNiece, Esq., 1907, 1136 Blaine Ave., Salt Lake City, Utah.

## WASHINGTON

PRINCETON CLUB OF SEATTLE
*Secretary,* John H. Watrous, Esq., 1913, 1121 Sixteenth Ave., Seattle, Wash.

# PART XIII

# LIST OF STUDENTS, DIRECTORY AND INDEX

# STUDENTS OF THE UNIVERSITY

## STUDENTS IN THE GRADUATE SCHOOL

### FELLOWS

Bickford, John Dean, North East, Md., 24 Dickinson St.
A.B., Princeton University, 1911.
A.M., Princeton University, 1914.
Charlotte Elizabeth Procter Fellow.

Carroll, Thomas Fitzgerald, Rocky Mount, Va., 24 Dick's'n St.
A.B., Randolph Macon College, 1912.
A.M., University of Virginia, 1918.
Class of 1883 Fellow in History and Politics.

Hubbell, George Shelton, Delacour, Alberta, Canada, 24 Dickinson St.
A.B., Wesleyan University, 1916.
A.M., Wesleyan University, 1917.
Class of 1883 Fellow in English Literature.

Stewart, Charles Irving, Ossining, N. Y., Bachelors' Club
Litt.B., Princeton University, 1918,
Chancellor Green Fellow in Mental Science.

Whiteford, Cameron, Northampton, Mass., 24 Dick'n St.
A.B., Amherst College, 1914.
A.M., Princeton University, 1917.
John Harding Page Fellow in Classics.

### GRADUATE SCHOLAR

Nelson, Ole Anker, Fort Ransom, N. Dakota, 231 Nassau St.
B.Sc., North Dakota Agricultural College, 1918.
Theodore Cuyler Graduate Scholar.

## GRADUATE STUDENTS

Bouma, Clarence, Grand Rapids, Mich., 21 B S
A.B., Calvin College, 1917.
B.D., Princeton Theological Seminary, 1918.

Konno, Yutaka, Tokyo, Japan, 61 '79 Hall
Imperial University of Tokyo, 1914.

Twinem, Francis Patton, Jewett, Ohio, 1 W M W
A.B., College of Wooster, 1917.

### STUDENTS ON PART TIME

Blau, Joel, 612 Riverside Ave., Trenton, N. J.
A.B., University of Cincinnati, 1908.

Bowman, John Wick, Uniontown, Pa., 15 A S
A.B., College of Wooster, 1916.

Braunlein, John Howard, Baltimore, Md., 2 A S
A.B., Pennsylvania College, 1917.

Davidson, Dwight Brooker, Coraopolis, Pa., 15 A S
A.B., College of Wooster, 1916.

Edmunds, Horatio Spencer, St. Louis, Mo., 13 A S
A.B., Westminster College (Mo.), 1916.

Gehman, John Luke, Martindale, Pa., 201 H S
A.B., Bucknell University, 1914.

Johnson, Gibson Reid, New Concord, Ohio, 311 H S
A.B., Muskingum College, 1916.

*Kelly, James Peter, State College, Pa., 33 Maple St.
B.S., College of the City of New York, 1906.
A.M., Columbia University, 1914.

Kimball, Leigh Wadsworth, New Brunswick, N. J.,
24 Seventh Ave., New Brunswick, N. J.
A.B., Dartmouth College, 1903.
A.M., Syracuse University, 1916.

Kleffman, Albert Henry, Baltimore, Md., 213 H S
A.B., Lebanon Valley College, 1916.

Logan, Robert Lee, Germantown, Pa., 38 A S
A.B., Lafayette College, 1916.

Neely, Harry Campbell, Woodbine, Pa., 32 A S
A.B., Lafayette College, 1916.

*Neville, Harvey Alexander, Millwood, Va., 28 Vandeventer Ave.
A.B., Randolph Macon College, 1918.

Roeandt, August, Petrograd, Russia, 14 A S
A.B., Baldwin-Wallace College (Ohio), 1916.
S.T.B., Boston University, 1917.
B.D., Princeton Theological Seminary, 1918.

Saunders, John Rouzie, Butylo, Va., 7 A S
A.B., Randolph Macon College, 1915.
* Part Time Assistant.

Stuart, Joseph Clyde, Huntersville, N. C., 2 A S
A.B., Elon College, 1912.

Unger, James Kelly, West Point, Miss., 4 A S
B.S., University of Mississippi, 1915.

VanDyke, Martin, Paterson, N. J., 407 H S
A.B., Princeton University, 1915.

Voorhis, John Winfield, Ocean Grove, N. J., 401 H S
A.B., Princeton University, 1917.

Wilson, J. Christy, Idaho Falls, Idaho, 95 Mercer St.
A.B., Kansas State University, 1914.

| | |
|---|---|
| Fellows | 5 |
| Graduate Scholar | 1 |
| Students on Full Time | 3 |
| Students on Part Time | 20 |
| | 29 |

## UNDERGRADUATES

### SENIOR CLASS, 1919*

Alford, Kenneth Wellington, New York, N. Y., 11 '79 H
a Alyea, Edwin Paschal Dinsmore, Clifton, N. J.
a Aronsohn, Nathan Henry, Paterson, N. J.
n Arrowsmith, William Walter Weed, New York, N. Y., 21 L
Baer, Harold Meyer, Pittsburgh, Pa., 62 '79 H
n Baker, William Reginald, Jr., Madison, N. J., 21 L
Bauhan, George Louis Theodore, Jersey City, N. J.
Bitten, Robert Mooney, Atlantic City, N. J., 30 So. Wilton St.
Bray, Allen Richard, Arlington Heights, Ill., 61 '79 H
Casey, Carl Mallan, Lynchburg, Va., 11 '79 H
Clark, William Lee, Harrisburg, Pa., 53 '79 H
n Cohen, Roger Stahel, Washington, D. C., 24 L
Cudlipp, Chandler, Jersey City, N. J., 24 '79 H
Donnelly, Lochren, St., Paul, Minn., 3 S R
Gibboney, David Clarence, Jr., Philadelphia, Pa., 13 N M R
n Goldman, Richard Silas William, New York, N. Y., 24 L
a Griffiths, Walter Denison, Spuyten Duyvil, N. Y., 115 B
n Haffner, William Burton, New York, N. Y., 185 L
a Harris, Arthur Kempner, New York, N. Y., 66 H
Hax, William Balthaser Frederick, Roland Park, Md., 51 '79 H
a Hillegass, Charles Edwin, Jr., Red Hill, Pa., 2 D H
n Jenkins, Alfred Elliotte, Pittsburgh, Pa., 26 S E
a Johnson, Archibald DeBaun, Lincoln University, Pa., 75 H
n Kennedy, Edgar Sloan, Lansdowne, Pa., 9 S E
a King, Donald Moore, Pittsburgh, Pa.
a Kloppenburg, William Barthold, Jersey City, N. J., 54 B
a Kretschmann, Philip Miller, Philadelphia, Pa., 33 B
n McCulloch, Duncan, Jr., Glencoe, Md., 34 L
n McKee, Ralph Dyer, Bellevue, Pa., 183 L
a Mandel, David, Perth Amboy, N. J., 84 B
n Maxwell, John Courtlandt, New York, N. Y., 183 L
n Norton, Arthur Leigh, New York, N. Y., 9 S E
a Norton, Paul Robinson, Reading, Pa., 91 H

* Members of the Students' Army Training Corps are designated by the prefix "a"; members of the Naval Training Unit by the prefix "n".

| | | | |
|---|---|---|---|
| | Orth, Paul William, | Steelton, Pa., | 51 '79 H |
| n | Page, Lawrence Rufus, | Olean, N. Y., | 112 L |
| n | Paxton, William Miller, III, | St. Davids, Pa., | 71 L |
| a | Proctor, Lawrence Martin, | Washington, D. C., | 54 C |
| a | Ralston, Joseph Vernon, | Columbus, O., | 33 B |
| | Rouse, Robert Greene, | Newton, N. J., | 6 N M R |
| a | Sailer, Randolph Clothier, | Englewood, N. J., | 14 A H |
| | Savidge, John Foster, | New York, N. Y., | 62 '79 H |
| n | Schaefer, John Louis, Jr., | New York, N. Y., | 101 L |
| n | Sloane, Cyril, | Port Washington, N. Y., | 52 L |
| a | Smith, Guy Lincoln, | Johnson City, Tenn., | |
| a | Smith, Howard Malcolm, | Brooklyn, N. Y., | 24 H'm |
| a | Snyder, Franklin Faust, | Lancaster, Pa., | 84 B |
| n | Streichenberg, Carl Frederick Albert, | Glen Ridge, N. J., | 183 L |
| a | Walters, Sumner Francis Dudley, | Newark, N. J., | |
| n | West, John Crawford, | Beloit, Wis., | 51 L |
| n | Wheeler, Henry Lamont, Jr., | Roselle, N. J., | 38 L |
| a | Windels, Arthur Edward, | Brooklyn, N. Y., | 94 B |
| a | Wren, William Wood, | Frederick, Md., | 24 H'm |

SENIORS..... 52

## JUNIOR CLASS, 1920*

| | | | |
|---|---|---|---|
| a | Aaron, Marcus Lester, | Pittsburgh, Pa., | 2 W W |
| a | Anderson, Donald Camp, | New York, N. Y., | 301 H'm |
| a | Armstrong, James Newton, Jr., | Blairstown, N. J., | 71 B |
| n | Baird, William James, Jr., | Philadelphia, Pa., | 185 L |
| n | Baskerville, Arthur Page, | Princeton, N. J., | 23 S E |
| n | Beal, James Harvey, Jr., | Pittsburgh, Pa., | 181 L |
| n | Bechtel, John G., | Carpenter, Del., | 42 L |
| a | Blauvelt, Hiram Bellis, | Oradell, N. J., | 26 C |
| n | Brooks, William Henry, Jr., | St. Davids, Pa., | 112 L |
| n | Buechner, Carl Fred, Jr., | New York, N. Y., | 112 L |
| n | Burke, John Logan, | Syracuse, N. Y., | 112 L |
| n | Callisen, Sterling A., | Princeton, N. J., | 28 S E |
| a | Campbell, John Gordon, | York, Pa., | |
| a | Cannon, Rudolf Austin, | Cleveland, O., | 2 B C |
| a | Carrick, Charles Lynn, Jr., | Jersey City, N. J., | 72 H |
| n | Chamberlin, Philip Miller, | Hightstown, N. J., | 21 L |

* Members of the Students' Army Training Corps are designated by the prefix "a"; members of the Naval Training Unit by the prefix "n".

a Clark, Maurice Earl, Ridgewood, N. J., 11 A H
a Cohn, Bertrand Wilson, Brookhaven, Miss., 71 H
n Compton, William Randolph, Jr., St. Louis, Mo., 112 L
a Cotton, John Patterson, Hirdsfield, N. D., 22 H
n Cowan, John Beauregard, Jr., Vicksburg, Miss., 33 N E
n Dane, Nelson Breintnall, Newark, N. J., 15 L
a Dean, Prentice Northrup, Dalton, Pa., 22 H'm
DeMaris, Furman Addison, Jr., West Collingswood, N. J., 6 N M R
a Dennis, John Purnell, Preston, Md., 11 H'm
a Dodd, Samuel Thompson, Jr., Schenectady, N. Y., 309 H'm
a Donner, Carl Hermann, Summit, N. J., 22 H'm
a Egner, Harold Frederick, Newark, N. J., 1 B
a Eynon, George Llewellyn, Pittsburgh, Pa., 2 B C
n Fawcett, Arthur Hughes, Plainfield, N. J., 22 L
a Flaig, Julian Vincent, Pottsville, Pa., 2 A H'm
a Franz, James Norris, Cleveland, O., 53 C
a Fringer, David Lewis Bartlett, Pikesville, Md., 22 H'm
a Garnaus, Carl Edward, Brooklyn, N. Y., 92 H
n Gerstley, Henry Edward, Philadelphia, Pa., 63 L
n Gray, John Harrison, Syracuse, N. Y., 62 L
Greenleaf, George Elton, Plainfield, N. J., 13 '79 H
a Halstead, Donald Merwin, Brooklyn, N. Y.,
n Hamilton, Raymond Leslie, Newark, N. J., 22 L
n Harlan, John Marshall, Chicago, Ill., 141 L
a Harper, George McLean, Jr., Princeton, N. J.,
a Harris, Erdman, Sewickley, Pa.,
a Hartshorne, Richard, Phoenixville, Pa., 22 C
a Horton, Arthur Wellington, Jr., Philadelphia, Pa., 22 C
n Houck, Lewis Daniel, Mount Vernon, O., 164 L
a Jacobs, John Selby, Jr., Youngstown, O.,
Jackson, Sumner Allen, Passaic, N. J., 31 '79 H
n Johsnon, Henry Derr, Brooklyn, N. Y., 33 L
a Johnson, Walter Frank, Greenwich, Conn., 309 H'm
n Ketchum, Frederick Seymour, East Orange, N. J., 16 S E
n Kuser, John Louis, Jr., Bordentown, N. J., 18 S E
a Laird, Carroll Walton, East Orange, N. J., 62 C
Latrobe, Gamble, Jr., Wilmington, Del., 33 '79 H
n Lawrence, George Allen. Portland, Ore., 185 L
n Lee, Rensselaer Wright, Philadelphia, Pa., 16 S E
n Loucheim, Walter Clinton, Jr., New York, N. Y., 63 L
n McAlpin, David Hunter, 3rd, New York, N. Y., 141 L

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|---|---|---|---|
| a | Madden, Joseph McKee, | Lexington, Ky. | |
| a | Marks, Joseph, | Greenwich, Conn., | 309 H'm |
| a | Miller, Henry Keppele, Jr., | Wilmington, Del., | 301 H'm |
| a | Montgomery, James Stephens, | Trenton, N. J., | |
| n | Morgan, Tilgham Vickers, | Baltimore, Md., | 31 L |
| a | Morgan, Walter Lovette, | Wilkes-Barre, Pa., | 25 C |
| a | Mossman, William Seymour, | Fort Wayne, Ind., | 62 C |
| a | O'Gorman, James Aloysius, Jr., | New York, N. Y., | |
| n | O'Neill, John Raymond, | Brooklyn, N. Y., | 132 L |
| a | Osmer, Gilbert Grant, | Franklin, Pa., | |
| a | Page, Richard Lloyd, | Paoli, Pa., | 92 H |
| | Parker, Cortlandt, III, | Washington, D. C., | 33 '79 H |
| a | Parry, Joseph Saunders, Jr., | Summit, N. J., | 92 H |
| a | Pitney, Mahlon, Jr., | Washington, D. C., | |
| a | Porteous, Robert Elliot, | Jersey City, N. J., | 91 H |
| a | Powers, William L., | Youngstown, O., | 2 B C |
| n | Rafalsky, Richard Levyn, | New York, N. Y., | 133 L |
| a | Reynolds, Louis Charles, | Rochester, N. Y., | 111 H |
| n | Reed, Hugh Burgess, II, | Plainfield, N. J., | 33 L |
| a | Rickert, Thomas Hammer, | Oak Park, Ill., | 23 C |
| n | Rogers, Maurice, | Ashbourne, Pa., | 38 L |
| n | Rosenbaum, Francis Fels, | New York, N. Y., | 24 L |
| n | Rothchild, Lewis Howard, | New York, N. Y., | 144 L |
| a | Sanger, Raymond, | Princeton, N. J., | 61 H |
| a | Schanck, Lawrence Maynard, | South Orange, N. J., | 304 H'm |
| n | Schickhaus, Edward, Jr., | Newark, N. J., | 14 N E |
| n | Schroeder, Albert Henry, Jr., | Suffern, N. Y., | 124 L |
| n | Sharpe, John McDowell, III, | Chambersburg, Pa., | 71 L |
| n | Sherman, Robert Trowbridge, | Evanston, Ill., | 112 L |
| n | Sibley, George Hayden, | Denver, Colo., | 62 L |
| a | Sichelstiel, Louis Hirsch, | Pittsburgh, Pa., | 2 B C |
| a | Sparhawk, Richard Dale, | Denver, Colo., | 31 B |
| n | Stachelberg, Charles Grant, | New York, N. Y., | 35 L |
| | Stewart, Walter Blair, | Atlantic City, N. J., | 31 '79 H |
| a | Taylor, Livingston, Lodge, | Columbus, O., | 102 B |
| a | Townley, Philip Beardsley, | Newark, N. J., | |
| a | Townsend, Roger Corning, | Orange, N. J., | 72 H |
| n | Turner, Henry Brown, | Atlanta, Ga., | 164 L |
| a | Twitchell, Hanford, Mead, | New York, N. Y., | |
| n | Van Alen, Ambrose Henderson, | Rutledge, Pa., | 23 L |
| a | Wanless, Harold Rollin, | Chicago, Ill., | 61 H |

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|---|---|---|
| n Walker, Hayes McClelland, | Mercersburg, Pa., | 101 L |
| a Watts, Benjamin Franklin, Jr., | Leesburg, Fla., | 33 C |
| a Wells, William Gates, | Platte City, Mo., | 72 H |
| Wilmot, Willis Gilbert, | New Orleans, La., | 32 '79 H |
| a Wilson, John Albert, | New York, N. Y., | 23 C |
| n Witherspoon, John Barkley, | New Orleans, La., | 72 L |
| Worden, John Sartwell, | Olean, N. Y. | |
| n Yeiser, Frederick Thiesing; | Cincinnati, O., | 72 L |

JUNIORS..... 107

## SOPHOMORE CLASS, 1921*

| | | |
|---|---|---|
| n Allison, James, | Beaver, Pa., | 36 L |
| a Atkinson, Cedric Underhill, | Upper Montclair, N. J., | 16 C |
| n Baker, Walter Browne, | Houston, Texas, | 112 L |
| a Barbee, Edward Lowry, | Little Rock, Ark., | 2 C H'm |
| a Barclay, William Lyttleton, Jr., | Philadelphia, Pa., | 131 H |
| a Barringer, Brandon, | Haverford, Pa., | 32 C |
| a Barringer, Daniel Moreau, Jr., | Haverford, Pa., | 71 B |
| a Bartow, Tyler McKim, | Montclair, N. J., | 308 H'm |
| a Batt, Lewis Theodore, | South Orange, N. J., | 95 B |
| a Benedict, Thomas Harold, | Wellesley, Mass., | 310 H'm |
| a Benson, Julius M., | Jefferson, O., | 12 B |
| a Berry, George Packer, | Englewood, N. J., | 300 H'm |
| a Blackwell, Francis Ogden, Jr., | Englewood, N. J., | 310 H'm |
| a Bluntschli, Robert William, | Paterson, N. J., | 63 H |
| a Boteler, Elijah Smith, Jr., | New York, N. Y., | 134 H |
| a Bowman, Francis Bartow, | New York, N. Y., | |
| a Brawner, Alexander Harrison, Jr., | New York, N. Y., | 65 B |
| a Brown, Benjamin Nields, | Wilmington, Del., | 143 H |
| a Brush, John Mitchell, | Brooklyn, N. Y., | 65 B |
| a Bryan, George Plumer, | Chicago, Ill., | 21 C |
| a Bryan, Julien Hequembough, | Titusville, Pa., | |
| n Burns, Lloyd Spencer, | Brooklyn, N. Y., | 181 L |
| n Bushnell, Asa Smith, | Springfield, O., | 181 L |
| a Butcher, Alexander Stults, | Cranbury, N. J., | 95 B |
| n Callahan, Henry Augustine, | Lawrence, Mass., | 111 L |
| n Campbell, Herbert Sumner, | New York, N. Y., | 163 L |
| a Campbell, John Robert, Jr., | Detroit, Mich., | |
| n Carter, Weld Saunders, | East Orange, N. J., | 43 L |

* Members of the Students' Army Training Corps are designated by the prefix "a"; members of the Naval Training Unit by the prefix "n".

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|---|---|---|---|
| a | Chisholm, Henry Lawrence, | Morristown, N. J., | |
| a | Cisco-Smith, Gill, | New York, N. Y. | |
| a | Clarke, Alfred Hyde, | Pleasantville, N. Y., | 1 B H'm |
| a | Comstock, George Carlton, Jr., | New York, N. Y., | 71 H |
| a | Conner, James, | Charleston, S. C., | 3 A H |
| a | Conover, Alonzo Edward, Jr., | New York, N. Y., | 3 A H'm |
| a | Corbett, Frank Thornton, | New York, N. Y., | 92 B |
| n | Cossum, Robert Wilder, | Chicago, Ill., | 36 L |
| n | Cover, Loring Andrews, Jr., | Baltimore, Md., | 72 L |
| a | Cowan, Percy Bertine, | Glen Cove, N. Y., | 114 H |
| n | Creasey, Stephen Brearley, | Princeton, N. J., | 122 L |
| a | Croll, Joseph Dennehy, | New York, N. Y., | 75 H |
| n | Crouse, Cecil Idell, | Philadelphia, Pa., | 184 L |
| a | Curtis, Gordon Heys, | Elmira, N. Y., | 3 A H'm |
| a | Curtiss, John Shelton, | Buffalo, N. Y., | 101 H |
| n | Dater, John Young, Jr., | Ramsey, N. J., | 183 L |
| a | Davis, John Ethelbert, | New York, N. Y., | 13 C |
| | Davis, Philip Haldane, | Princeton, N. J., | 58 Mercer St. |
| a | Denniston, Robert, Jr., | Dobbs Ferry, N. Y., | 51 B |
| a | Dew, Walter Arthur, | Princeton, N. J., | 95 B |
| n | Donohue, Frank M., Jr., | New Brunswick, N. J., | 143 L |
| a | Dulles, Foster Rhea, | New York, N. Y., | 33 C |
| a | Ewing, Thomas Davis, | Portland, Ore., | 7 W W |
| a | Farr, Harry Andrews, | Princeton, N. J., | 16 H'm |
| a | Farr, William Rush, | West Orange, N. J., | 61 C |
| a | Fawcett, John Hewlett, | Middletown, N. J., | 11 C |
| a | Fisher, Howard Ritchie, | Pittsburgh, Pa., | 92 B |
| a | Flinn, Irvine Moore, Jr., | Wilmington, Del., | 43 H |
| a | Forbes, Robert Laton, | Weston, Mass., | 56 C |
| a | Foresman, Donald Blair, | Ridley Park, Pa., | 36 C |
| n | Foster, Reginald Hayden, | New York, N. Y., | 42 L |
| a | Furness, George Wood, | Jenkintown, Pa., | 12 C |
| n | Gaffney, Harry Burrows, | Bradford, Pa., | 46 L |
| n | Gilfillan, John, | Pittsburgh, Pa., | 121 L |
| | Gotshalk, William Calvin, Jr., | Trenton, N. J., | 17 S M R |
| a | Grandin, Frank Samuel, | Titioute, Pa., | 300 H'm |
| a | Greey, Elmer Bloomfield, | Princeton, N. J., | 312 H'm |
| n | Groel, Frederick Henry, | Princeton, N. J., | 101 L |
| a | Haines, Charles Huston, | Philadelphia, Pa., | 31 C |
| a | Hale, Chandler, Jr., | Harrisburg, Pa., | 16 C |
| | Hall, Stuart Eldridge, | New York, N. Y., | 22 '79 H |

n Halliburton, Richard, Memphis, Tenn., 46 L
a Halsey, Charles Day, Jr., Seabright, N. J.,
Hansen, Eigil Lund, Kronstad, Bergen, Norway, 106 Nassau St.
Harth, Henry Charles Philip, Trenton, N. J.,
n Harvey, Harold Austin, Cambridge, Mass., 18 L
n Helm, Harold, Los Angeles, Cal., 172 L
n Herndon, Edward Tarr, Pottsville, Pa., 38 L
a Herzog, Edwin Harvey, Albany, N. Y.,
a Hoge, Frank Evans, New York, N. Y., 2 B H
a Hopkins, David Luke, Baltimore, Md., 72 L
n Hopkins, John Livingston, Atlanta, Ga.,
n Hornsey, John William, Jr., Summit, N. J., 141 L
a Jacobs, Arthur Branan, Boston, Mass., 16 H'm
a Jeffers, George Smyser, Harrisburg, Pa., 84 B
n Kelley, McClure, Washington, D. C., 71 L
a Kelly, Edmund Bredow, Baltimore, Md., 2 W M W
a Kennedy, Paul Edgar, Youngstown, O.,
a Kent, Ralph Edward, Rome, N. Y., 6 A H
n Kerr, Charles Matthew, Jr., York, Pa., 31 L
a Kilby, Thomas Erby, Jr., Anniston, Ala., 122 H
n Klipstein, Kenneth Hampton, East Orange, N. J., 132 L
a Knowles, Nathaniel, Jr., Philadelphia, Pa.
a Kopp, Edward Charles, Jr., Princeton, N. J., 16 H'm
a Lawrence, Reginald Norcom, Brooklyn, N. Y., 61 H
n Leggett, Herbert Adolph, Lemmon, S. D., 184 L
a Leh, John Henry, Allentown, Pa., 41 C
n Lewis, John Folton, Jr., Valdosta, Ga., 111 L
a Lindabury, Richard Vliet, Jr., Bernardsville, N. J., 16 C
n Litch, Robert Brodhead, Upper Montclair, N. J., 51 L
a Loose, Alan Spangler, Mauch Chunk, Pa., 24 H'm
a McAlpin, Benjamin Brandreth, Jr., New York, N. Y.
a MacColl, Alexander Meredith, Philadelphia, Pa., 16 C
n McCulloch, Robert Maning, Tenafly, N. J., 153 L
n McCulloch, Gordon, New York, N. Y., 36 L
a McDonnell, James Smith, Jr., Altheimer, Ark., 2 C H
a McKinnon, Hugh Deane, Chicago, Ill., 24 H'm
n McLaughlin, Robert William, Jr., Brooklyn, N. Y., 51 L
a Magonigle, Gaynor Beekman, New York, N. Y.,
a Mahaffy, Rodmond Smith, Wilmington, Del., 75 H
a Martin, Ellis Hughes, Rockford, Ill., 310 H'm
n Matthews, Harrison Freeman, Baltimore, Md., 54 L

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| a | Matthews, Watt Reynolds, | Albany, Tex., | 94 H |
| a | Mayo, Charles William, | Rochester, Minn., | 308 H'm |
| n | Mead, Varnum Cleveland, | Arlington, Mass., | 142 L |
| a | Merrifield, Richard Earl, | New York, N. Y., | 112 B |
| a | Metzger, Rowland South, | Salem, O., | 56 C |
| a | Meyer, Morton Morris, | Pittsburgh, Pa., | 82 B |
| n | Miller, Lloyd Samuel, | Bound Brook, N. J., | 143 L |
| n | Milne, Walter Keith, | Roslyn, Md., | 41 N E |
| a | Mish, Joseph Dubbs, | Hagerstown, Md., | 143 H |
| n | Molloy, Charles Joseph, | Brooklyn, N. Y., | 141 L |
| a | Moore, David Dodge, | New York, N. Y., | 2 C H'm |
| a | Morris, Howard Allen, | Brooklyn, N. Y., | 3 A H'm |
| a | Murray, Gilbert Donald, Jr., | Scranton, Pa., | 84 H |
| n | Murray, James Walter, | Princeton, N. J., | 18 L |
| a | Norris, Henry Stuart, | Terre Haute, Ind., | 112 B |
| n | Opie, Howard Reinoehl, | Pittsburgh, Pa., | 51 L |
| n | Osborne, Robert Russell, | Brooklyn, N. Y., | 123 L |
| n | Paddock, Benjamin Henry, | Detroit, Mich., | 183 L |
| n | Paddock, Thomas Ferguson, | Detroit, Mich., | 183 L |
| a | Palmer, Robert Sterling, | Columbus, O., | 102 B |
| | Parrott, Lindesay Marc, | Princeton, N. J., | 9 N M R |
| a | Penfield, Thornton Bancroft, Jr., | Englewood, N. J., | 26 C |
| a | Perry, Edward Ritzema, | Shrewsbury, N. J., | 41 H |
| a | Pershing, John, | Denver, Colo., | 73 H |
| a | Pope, James Noble, | Jersey City, N. J., | 72 H |
| a | Rabinowitz, Samuel Mordecai, | Trenton, N. J., | 42 B |
| a | Rahn, Earl Fox, | Schwenkville, Pa., | 21 C |
| n | Ramee, Arthur Randolph, | Hackensack, N. J., | 172 L |
| a | Rawlings, Junius Mott, | El Paso, Tex., | 24 B |
| a | Raymond, Richard Valentine, | Brooklyn, N. Y., | |
| a | Reichner, Aiken, | Philadelphia, Pa., | 12 C |
| n | Rhodes, Charles Elbert, Jr., | Buffalo, N. Y., | 36 L |
| a | Rhodes, Robert Peebles, | Pittsburgh, Pa., | 111 B |
| n | Richardson, Hallam Maxon, | Brooklyn, N. Y., | 23 L |
| a | Richardson, Hubert Townsend, | Passaic, N. J., | |
| n | Rogers, William, Jr., | Ashbourne, Pa., | 38 L |
| n | Rothschild, Howard Frank, | Brooklyn, N. Y., | 35 L |
| a | Russell, John Ewing, | Pittsburgh, Pa., | 6 W W |
| n | Ruth, Richard Bowman, | Lebanon, Pa., | 7 S E |
| n | Ryan, John Roselle Tucker, 2nd, | Indianapolis, Ind., | 181 L |

Scarborough, Harvey Miller, Trenton, N. J., 132 W. Hanover St.

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| a Schafer, Myron Lewis, | New York, N. Y., | 310 H'm |
| n Scheerer, Joseph Durand, | East Orange, N. J., | 153 L |
| a Scureman, Murray Smith, | Dorranceton, Pa., | 2 B |
| n Shaw, Lauren Elwood, | Brooklyn, N. Y., | 9 N R |
| n Shea, Sidney Morgan, | Pittsburgh, Pa., | 181 L |
| Sloan, Alexander Notman, Jr., | Peru, Ill., | 3 N M R |
| n Slocum, Lorimer Bergland, | Yonkers, N. Y., | 142 L |
| a Stein, Edward Thomas, | Reading, Pa., | 53 B |
| a Stewart, Paul Wellington, | Newark, N. J., | |
| a Stillwell, Richard, | New York, N. Y., | 51 B |
| a Streetman, William McIver, | Houston, Tex., | 6 W W |
| n Strong, William McCreery, | Baltimore, Md., | |
| n Stull, Arthur, | Wilkes-Barre, Pa., | 42 L |
| a Tappen, Irwin Logan, | Jersey City, N. J., | 3 A H |
| a Thach, William Thomas, | Lake Placid, N. Y., | 41 C |
| a Todd, Rodwell, | Millburn, N. J., | 113 H |
| n Todd, Wallingford, | New York, N. Y., | 2 N E |
| a Tompkins, Ralph Lewis, | Newburgh, N. Y., | 84 H |
| a Townsend, Winfield Scott, | Denver, Colo., | 2 B |
| n Turnbull, Phillips Roome, | Montclair, N. J., | 153 L |
| a Uebelacker, David Adams, | Hackensack, N. J., | |
| a Upson, Robert James, | Mansfield, O., | 41 H |
| n Urmy, Thomas Van Orden, | Newark, N. J., | 184 L |
| a Vermillion, James Galbraith, | Youngstown, O., | 111 B |
| a Walley, Harold Reinoehl, | Reading, Pa., | 53 B |
| a Wallis, Philip, | Altoona, Pa., | 65 H |
| a Walsh, William James, | Newark, N. J. | |
| a Watts, Edward Everett, Jr., | New York, N. Y., | 34 C |
| n Webb, Burton Mallory, | Orange, N. J., | 132 L |
| a Webster, Edwin Hanson, | Bel Air, Md., | 2 B |
| n Weishaar, Emmanuel Adam, | Williamsport, Pa., | 15 S E |
| n Werner, Joseph Louis, | St. Louis, Mo., | 141 L |
| n White, Erskine Norman, | New York, N. Y., | 43 L |
| Wheelwright, Philip Ellis, | Elizabeth, N. J., | 2 S M R |
| a Wilson, Henry Symmes, | Cranbury, N. J., | 32 B |
| n Wood, Clinton Tyler, Jr., | Wooster, O., | 184 L |
| Wood, Horace Elmer, | Philadelphia, Pa., | 21 '79 H |
| n Woodworth, Benjamin Snow, | Minneapolis, Minn., | 43 L |
| a Wright, William A. Stone, | Ben Avon, Pa., | 304 H'm |

SOPHOMORES..... 190

## FRESHMAN CLASS, 1922*

| | | | |
|---|---|---|---|
| a | Adler, James Louis, | Pittsburgh, Pa., | 63 H |
| a | Aldridge, Clayson Wheeler, | Rome, N. Y., | 53 B |
| a | Alexander, Wallace Leonard, | Philadelphia, Pa., | 4 E M W |
| a | Anderson, John O'Hara, | Pittsburgh, Pa., | 92 B |
| a | Anderson, Malcolm E., | Princeton, N. J., | 93 H |
| n | Andrade, George Webster Reed, | New York, N. Y., | 144 L |
| a | Arrowsmith, Noel Stryker, | Orange, N. J., | 4 W M W |
| n | Auerbach, Paul Stephen, | New York, N. Y., | 19 S E |
| a | Baker, Albert deRussy, | Providence, R. I., | 1 E M W |
| a | Ballard, John D., | Bellevue, Pa., | 31 L |
| a | Ballard, Jonathan Young, | Fort Worth, Tex., | 3 E M W |
| | Barnes, Albert Sydney, | East Orange, N. J., | 9 S M R |
| a | Barr, Alfred Hamilton, Jr., | Baltimore, Md., | 3 E W |
| n | Bartlett, Willard, Jr., | St. Louis, Mo., | 12 N E |
| a | Barwise, Joseph Hudson, II, | Fort Worth, Tex., | 103 B |
| a | Bathgate, James Edward, III, | Basking Ridge, N. J., | 132 H |
| a | Bell, Alexander Hamilton, Jr., | Washington, D. C., | 5 W M W |
| a | Bell, S., III, | Rosemont, Pa. | |
| n | Belt, Fletcher LeRoy, | Fostoria, O., | 186 L |
| a | Berdich, John Edward, | Philadelphia, Pa., | 1 C H'm |
| a | Bethell, Richard Sargent, | Upper Montclair, N. J., | 2 E W |
| a | Billings, Chester, | Newark, N. J., | 308 H'm |
| a | Blake, Edmund Butler, | New York, N. Y., | 12 H |
| a | Blake, Theodore Dockstader, | New York, N. Y., | 142 H |
| a | Blodget, Lorin Theodore, | Camden, N. J., | 16 E W |
| a | Bogert, Albert Curtis, | New York, N. Y., | 11 H'm |
| a | Bovaird, George Crary, | New York, N. Y., | 4 W W |
| | Boyce, Joseph Canon, | Pittsburgh, Pa., | 5 N M R |
| n | Brennan, Ledwith John, | New York, N. Y., | 172 L |
| a | Brodhead, James Easton, | Kingston, Pa., | 32 H |
| a | Brooke, R. C., | Birdsboro, Pa. | |
| a | Brown, Beverley Minturn, | New York, N. Y., | 123 H |
| | Brown, James Noble, | Cranbury, N. J., | 15 S M R |
| a | Browning, Samuel Pearce, Jr., | Maysville, Ky., | 4 E M W |
| | Brussaly, Manual, | Princeton, N. J., | 11 Witherspoon St. |
| a | Buck, Jerome Campbell, | Elmira, N. Y., | 2 A H |
| n | Buechner, Robert, | New York, N. Y., | 172 L |
| n | Callender, Donald Bruce, | Brooklyn, N. Y., | 31 L |

* Members of the Students' Army Training Corps are designated by the prefix "a"; members of the Naval Training Unit by the prefix "n".

| | | | |
|---|---|---|---|
| n | Cameron, Donald Kenzie, | Andover, Mass., | 111 L |
| n | Campbell, Alan Bird, | Pleasantville, N. Y., | 163 L |
| a | Carey, Anthony Morris, Jr., | Baltimore, Md., | 81 H |
| a | Carpenter, Lucien Bonaparte, | Ardmore, Pa., | 4 W M W |
| a | Carter, Burnham, | New York, N. Y., | 5 W W |
| a | Case, Everett Needham, | Plainfield, N. J., | 5 W W |
| n | Clark, Atherton, | Baltimore, Md., | 121 L |
| | Clark, Byron, 3rd, | Brooklyn, N. Y., | 7 N M R |
| a | Coffin, Rogers Caldwell, | Minneapolis, Minn., | 16 B |
| n | Coit, George Sargent, | Omaha, Neb., | 123 L |
| | Collins, Edward Morris, | New York, N. Y., | 4 N M R |
| a | Collinson, Harry Noyes, | Hasleton, Pa., | 96 B |
| a | Comstock, George C., | New York, N. Y., | 71 H |
| a | Cooke, George Joseph, Jr., | Chicago, Ill., | 11 A H |
| a | Corbett, Frank Thornton, | New York, N. Y., | 92 B |
| a | Corcoran, Francis Leo, | Winthrop, Mass., | 8 A H |
| a | Cottier, Hamilton, | Scarsdale, N. Y., | 12 H |
| | Cowan, Arthur Joseph, | Harrison, N. Y., | 23 '79 H |
| a | Cramer, William Edward Wilmerding, | Troy, N. Y., | 12 A H |
| a | Cramp, William Milton, | Philadelphia, Pa., | 4 W W |
| a | Crane, Louis Burton, Jr., | Elizabeth, N. J., | 5 W M W |
| a | Cresswell, Hugh Catherwood, | Philadelphia, Pa., | 7 E W |
| n | Cudlipp, William Allan, | Jersey City, N. J., | 31 N E |
| a | Cunningham, Allen, | Joplin, Mo., | 22 H |
| n | Cushing, Leonard Jarvis, | New York, N. Y., | 143 L |
| a | Cushman, Larimer Alanson, Jr., | New York, N. Y., | 34 C |
| a | Cushman, Lewis Arthur, Jr., | New York, N. Y., | 113 H |
| a | Daniels, Robertson Balfour, | Washington, D. C., | 3 B H |
| a | Davis, Raymond J., | Spokane, Wash., | 2 B |
| a | Day, Morgan Coit, | St. Louis, Mo., | 131 H |
| | de Coningh, Edward Hurlburt, | Chicago, Ill., | 34 '79 H |
| n | Denby, Charles, Jr., | Washington, D. C., | 163 L |
| n | DeStefano, Fred Walter, | New York, N. Y., | 34 N E |
| a | Dickinson, Hunt Tilford, | New York, N. Y., | 32 H |
| a | Dilworth, Harrison Parry, | Pittsburgh, Pa., | 74 B |
| a | Dodd, Stuart Carter, | New York, N. Y., | 3 W M W |
| a | Douglas, Donaldson, | Rye, N. Y., | 113 H |
| a | Downs, Donald, | Washington, D. C., | 16 W W |
| a | Ducas, Robert, | New York, N. Y., | 12 E W |
| | Dunkak, William Henry, | New York, N. Y., | 8 N M R |
| n | Dunn, Edward Klein, | Baltimore, Md., | 131 L |

| | | | |
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| n | Dunn, Eugene Stevenson, | Paterson, N. J., | 154 L |
| a | Dunn, John Fordham, | Quincy, Ill., | 3 E W |
| a | During, Maurice Peter, | New York, N. Y., | 104 H |
| a | Dyer, Addison Lysle, | Easton, Pa., | 21 H'm |
| n | Eckfeldt, Edward Hooper, Jr., | Orange, N. J., | 32 S E |
| | Eggenberger, John Benjamin, | Newark, N. J., | 1 S M R |
| a | Engle, Joseph Redman, | Haddonfield, N. J., | 2 C H |
| a | Erdmann, Sturtevant, | New York, N. Y., | 52 C |
| a | Ewald, Edwin, | Jersey City, N. J., | 7 A H |
| a | Fay, Edwin Bilger, | Houston, Tex., | 9 E W |
| a | Fierlein, James Baxter, | Evanston, Ill., | 16 E W |
| a | Fleming, Robert Morton, | Denver, Colo., | 51 C |
| | Forbes, Daniel Steele, | Hawthorne, N. J., | 16 S M R |
| a | Forbes, John Alexander, | Rockford, Ill., | 73 B |
| n | Fort, Josiah Gill, | Clarksville, Tenn., | 21 N E |
| a | Fowler, John Francis, Jr., | New York, N. Y., | 5 E M W |
| a | Frank, Harry, Jr., | New York, N. Y. | |
| n | Frazier, Charles Henry, | Morristown, N. J., | 101 L |
| a | Frost, Jerome Samuel, | Minneapolis, Minn., | 16 B |
| | Fuller, Paul, 2nd, | New York, N. Y., | 62 '79 H |
| a | Furey, Rankin, | Pittsburgh, Pa., | 16 W W |
| n | Garrick, Hubert Frederick, | Yonkers, N. Y., | 13 S E |
| a | Garrity, Martin Henry, Jr., | Newton Highlands, Mass., | 53 H |
| a | Garvey, Clifford Pendleton, | Cincinnati, O., | 122 H |
| a | Gaylord, Philip Edward, | Kansas City, Mo., | 21 H |
| a | Getze, Edward Bioren, | Philadelphia, Pa., | 54 B |
| a | Gifford, Nelson Davis, | South Westport, Mass., | 3 B |
| n | Goodspeed, Joseph Horace, Jr., | Boston, Mass., | 54 L |
| a | Gordon, L., Jr., | St. Louis, Mo. | |
| | Gotshalk, Dilman Walter, | Trenton, N. J., | 13 N M R |
| a | Gould, Edson Beers, | Newark, N. J., | 6 E W |
| | Gould, Edward Wanton, Jr., | New York, N. Y., | 52 '79 H |
| n | Graham, Thomas, | Madison, Ind., | 142 L |
| a | Gray, D. S., | Columbus, O. | |
| a | Griffin, Paul Frederick, | Lock Haven, Pa., | 124 H |
| a | Groce, Walton Craig, | New York, N. Y., | 1 W W |
| a | Grogan, William Herbert, | Newark, N. J., | 8 A H |
| a | Hackney, Hiram Hamilton, | Uniontown, Pa., | 74 H |
| a | Haines, Hartley Stokes, | Millville, N. J., | 311 H'm |
| n | Hale, William Ellery, | Washington, D. C., | 142 L |
| a | Hall, Alton Parker, | New York, N. Y., | 5 B |

a Hamilton, Abbott Kuttredge, New York, N. Y., 93 H
n Hardin, Parker Calhoun, Chicago, Ill., 182 L
a Harrison, Edmund Pendleton Hunter, Bel Air, Md., 6 E W
a Hart, Henry Carlton, Ambler, Pa., 8 E W
n Henderson, Robert Lawrence, Youngstown, O., 34 S E
a Hensel, Herman Struve, Tenafly, N. J., 1 W M W
a Hicks, T. E., New York, N. Y., 2 E M W
n Higley, Philo Hall, Hinsdale, Ill., 182 L
a Hills, Carroll Beardsley, Auburn, N. Y., 104 B
a Hole, William Edward, Versailles, O., 105 H
n Hollander, George Carroll, New York, N. Y., 23 L
a Holmes, Elmore, Memphis, Tenn., 105 H
a Holt, Robert Sherman, Summit, N. J., 1 E M W
n Hooper, Robert Poole, Jr., Philadelphia, Pa., 111 L
a Houseman, Maurice Henry, Grand Rapids, Mich., 28 C
Howell, John White, Jr., Newark, N. J., 64 '79 H
a Hurst, William Bell, Baltimore, Md., 74 H
a Hussey, John, Jr., New York, N. Y., 3 W M W
a Hutchinson, John Dunbar, Trenton, N. J., 102 H
n Irons, William Giberson, II, New York, N. Y., 33 L
a Jackson, A. B., St. Paul, Minn.
a Jackson, Schuyler Brinckerhoff, Mendham, N. J., 101 B
n Johnson, Reginald Lee, Montclair, N. J., 51 L
a Jones, Louis Winchester, Santa Barbara, Cal., 74 H
a Kaltenbach, Henry Julius, Jr., Yonkers, N. Y., 4 W W
a Keeney, Morton, Grand Rapids, Mich., 73 B
a Kent, William Robert, St. Joseph, Mich., 6 A H
a Kilby, T. E., Anniston, Ala., 122 H
n King, Herbert George, New York, N. Y., 34 N E
a King, J. C., Bound Brook, N. J., 5 E M W
a Kingsley, William Joseph, Montclair, N. J., 7 E W
a Kirk, Rudolf, Olney, Md., 102 B
a Kneedler, William Harding, Philadelphia, Pa., 34 C
a Knowles, George Milton, Colorado Springs, Colo., 103 H
a La Branche, George Michael Lucien, Jr., Pelham, N. Y., 71 B
a Laflin, Louis Ellsworth, Jr., Princeton, N. J., 74 B
a Lamb, Dana Storrs, Westfield, N. J., 133 H
a Lambert, A. G., Wash., D. C.
a Lane, Nathan Taylor, Ocean Grove, N. J., 3 E M W
Leon, Jacob Henry, Haddonfield, N. J., 42 '79 H
a Livingston, Joseph Shaw, Philadelphia, Pa., 16 E W

| | | | |
|---|---|---|---|
| a | Loeb, Marx Benjamin, | New York, N. Y., | 82 B |
| a | Long, Harry Jones, | New York, N. Y., | 12 E W |
| a | Lopez, Juan Manuel, | Princeton, N. J., | 11 C |
| a | Lourie, D. B., | Peru, Ill. | |
| a | Love, George Hutchinson, | Johnston, Pa., | 6 A H |
| a | Lyon, J. P., | Short Hills, N. J. | |
| n | Lyons, Edwin James, | Princeton, N. J., | 18 L |
| a | McBride, Walter Paul, | Chicago, Ill., | 52 C |
| | McCain, Laird Donald, | Pittsburgh, Pa., | 7 S M R |
| a | McCamant, Thomas, | Portland, Ore., | 8 W W |
| a | McCarthy, Franklin Alexander, | Elizabeth, N. J., | 4 E W |
| a | McClenahan, John Megredy, | Princeton, N. J., | 31 B |
| n | McCord, Robert Farrington, | Greenwich, Conn., | 4 S E |
| a | MacCready, William Beattie, | New York, N. Y., | 52 C |
| n | McDonald, Alexander Donald, | Aurora, Ill., | 19 N E |
| a | MacDonald, G., | Washington, D. C., | 300 H |
| a | McFerran, Watson Barr, | Louisville, Ky., | 6 B |
| n | McIlvaine, William Brown, Jr., | Chicago, Ill., | 171 B |
| a | McIlwain, George Irwin, | Cambridge, Mass., | 4 B |
| a | McJunkin, Everit Kerr, | New York, N. Y., | 14 E W |
| a | McKnight, Francis Harlan, | Sewickley, Pa., | 7 B H |
| n | McLean, Emerson Oran, | Brookline, Mass., | 53 L |
| a | McMahon, John Hamilton, | Monongahela, Pa., | 1 E M W |
| a | McMillan, Andrew, | Gorham, N. H., | 1 W M W |
| a | McPhee, Walter Scott, | Brooklyn, N. Y., | 103 H |
| a | Manchee, Arthur Leavens, | Newark, N. J., | 7 A H |
| n | Mansfield Richard Huntington, | West Brighton, N. Y., | 35 L |
| n | Mapletoft, Robert Smith, | Newark, N. J., | 23 S E |
| a | Marsh, Ogden Tiffany, | Brooklyn, N. Y., | 1 W M W |
| n | Massey, William Everett, Jr., | Ocean City, N. J., | 171 L |
| n | Mathis, Edward Carleton, | Toledo, O., | 53 L |
| a | Matthews, Thomas Stanley, | Princeton, N. J., | 8 E W |
| | Maull, Baldwin Springer, | Wilmington, Del., | 43 '79 H |
| a | Maxwell, Eugene L., | Glen Cove, N. Y., | 9 B |
| n | Mayor, Alpheus Hyatt, | Princeton, N. J., | 39 N E |
| a | Mellis, Donald Bernard, | Belleville, N. J., | 9 B |
| a | Merritt, Schuyler, II, | Tuckahoe, N. Y., | 62 B |
| n | Metcalf, Rowe Browning, | New York, N. Y., | 13 L |
| n | Mihm, Martin Charles, | Pittsburgh, Pa., | 172 L |
| n | Miller, Charles Roberts, | New York, N. Y., | 43 L |
| a | Miller, Edward K., | Pittsburgh, Pa., | 12 H |

| | | | |
|---|---|---|---|
| a | Millholland, James Allaire, | Washington, D. C., | 11 H'm |
| a | Milne, Sidney Wentworth, | Philadelphia, Pa., | 112 H |
| n | Morgan, Alexander Perry, | Princeton, N. J., | 13 L |
| n | Morgan, Richard Pugh, | Johnstown, Pa., | 32 L |
| a | Morgan, William Leverette, Jr., | Newark, N. J., | 6 A C |
| n | Morrow, Lewis Bond, | Memphis, Tenn., | 64 L |
| a | Morton, John Dwight, | Roxbury, Mass., | 41 B |
| a | Motter, Thomas Hubbard Vail, | Washington, D. C., | 4 E M W |
| n | Mueller, Sterling Reginald, | Lakewood, N. J., | 1 N E |
| a | Murtland, Wilfrid, | Pittsburgh, Pa., | 53 H |
| a | Myers, Darwood Gillespie, | New York, N. Y., | 41 B |
| a | Myers, Fred, | Englewood, N. J., | 3 B H'm |
| n | Nathan, Alfred Max, | New York, N. Y., | 13 L |
| n | Nelden, Aaron Griggs, | Stanhope, N. J., | 68 L |
| a | Newlin, Richard Shipley, | Whitford, Pa., | 4 W M W |
| a | Nichols, George Harris, | Greenwich, Conn., | 5 B |
| a | North, John Paul, | Buffalo, N. Y., | 12 W W |
| n | Osborn, John Draper, | Minneapolis, Minn., | 123 L |
| | Oxholm, Theodor, West New | Brighton, N. Y., | 23 '79 H |
| a | Page, Francis L., | Pittsburgh, Pa., | 11 H'm |
| a | Palmer, Alexander Purves, | Trenton, N. J., | 3 E M W |
| a | Penney, Robert S., | Minneapolis, Minn., | 5 E M W |
| a | Phillips, Frederick M., | Newark, N. J., | |
| a | Poe, John Prentiss, | Baltimore, Md., | 3 W W |
| a | Pope, Darwin Jesse, | Washington, D. C., | 11 H'm |
| a | Pope, Edward Stickney, | Lake Forest, Ill., | 3 W W |
| a | Porter, Baillie Price, | Baltimore, Md., | 2 W M W |
| a | Porter, Cedric Warren, | Mattapan, Mass., | 43 B |
| a | Post, Frank Lester, | Paterson, N. J., | 2 C H |
| a | Powell, R. I., | New York, N. Y. | |
| n | Powell, William Ackland, Jr., | Brookline, Mass., | 12 S E |
| n | Pressinger, Whitfield Price, Jr., | Chicago, Ill., | 132 L |
| a | Prioleau, William Hutson, Jr., | Charleston, S. C., | 3 A H |
| a | Ramsay, John Breckinridge, Jr., | Baltimore, Md., | 6 W W |
| n | Ravenel, Daniel, Jr., | Asheville, N. C., | 31 L |
| a | Raynolds, Arthur Hidden, | New York, N. Y., | 13 W W |
| | Reed, Edward Kenneth, | Glen Ridge, N. J., | 4 S M R |
| a | Reeser, Edwin Isherwood, | New York, N. Y., | 7 B H |
| a | Reeve, Warren Scott, | Lancaster, Pa., | 9 A H |
| n | Reynolds, Eugene Benton, | Brooklyn, N. Y., | 66 L |
| a | Reynolds, John Murray, | Brooklyn, N. Y., | 1 E W |

| | | | |
|---|---|---|---|
| a | Richardson, Hugh Inman, | Atlanta, Ga., | 22 H |
| | Richardson, William Parvis, | Dover, Del., | 43 '79 H |
| a | Riesenberg, Herbert Gordon, | Indianapolis, Ind., | 51 H |
| a | Roberts, Harmar Denny, | Wynnewood, Pa., | 3 B |
| a | Roberts, William Culver, | Brooklyn, N. Y., | 4 W M W |
| a | Robinson, Charles Alexander, Jr., | Peekskill, N. Y., | 4 B |
| a | Robinson, Harold Allen, | Minneapolis, Minn., | 5 E M W |
| a | Rodgers, John Thomas, | Springfield, O., | 9 A H |
| | Rodgers, Oliver, | Pittsburgh, Pa., | 44 '79 H |
| n | Rogers, Milton, | Omaha, Neb., | 5 S E |
| a | Rossin, Edgar Lewis, | New York, N. Y., | |
| n | Rowley, William Thurston, | Hartford, Conn., | 13 S E |
| n | Rutter, David Ryerson, | Lake Forest, Ill., | 66 L |
| | Saunders, Goddard Weld, | Fanwood, N. J., | 10 N M R |
| a | Scarff, James Gorton, | Bellefontaine, O., | 2 W W |
| a | Scarff, John Edwin, | Bellefontaine, O., | 7 A H |
| a | Scarlet, Raymond Gordon, | Baltimore, Md., | 81 H |
| n | Schofield, Franklin Perry, | Glen Ridge, N. J., | 2 S E |
| a | Schrauff, William Bernard, | Jersey City, N. J., | 52 C |
| a | Schutte, Frederick Alexander, | Brooklyn, N. Y., | 5 E W |
| n | Scott, Joseph Freeman, | Pittsfield, N. H., | 185 L |
| a | Scull, Richard Barclay, | Bryn Mawr, Pa., | 112 H |
| | Shaw, Lauren Elwood, | Brooklyn, N. Y., | |
| a | Shea, George Edward, Jr., | New York, N. Y., | 5 E W |
| a | Sheldon, George William, II, | Summit, N. J., | 16 W W |
| n | Shipway, Charles Morgan, | Charleston, S. C., | 4 S E |
| a | Shriver, Van Lear Perry, | Sewickley, Pa., | 73 B |
| n | Simpson, Alexander, | Englewood, N. J., | 41 L |
| a | Sinclaire, John, | Corning, N. Y., | 73 H |
| a | Sinclaire, Murray, | Corning, N. Y., | 73 H |
| a | Slawson, John Hoyt, | Spokane, Wash., | 312 H'm |
| n | Sloane, Charles O'Conor, | Port Washington, N. Y., | 53 L |
| a | Slocum, Jameson Sadler, | Yonkers, N. Y., | 7 B H |
| a | Smith, Chapman Tyson, | Philadelphia, Pa., | 7 B |
| a | Smith, Charles Willard, | Harrisburg, Pa., | 7 B |
| a | Smith, Edwin Ginnelley, | Trenton, N. J., | 7 B H |
| a | Smith, Henry Bertram, | New York, N. Y., | 2 E W |
| n | Smith, Ruel Stevenson, | Brooklyn, N. Y., | 66 L |
| | Smith, William Walter, | Providence, R. I., | 63 '79 H |
| n | Snell, Watson Ballard, | Toledo, O., | 53 L |
| a | Snyder, Eeredge, | Summit, N. J., | 3 E M W |

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|---|---|---|---|
| | Spalding, Philleo Jenkins, | Detroit, Mich., | 12 '79 H |
| a | Spencer, Walker Brainerd, Jr., | New Orleans, La., | 62 H'm |
| a | Sperry, Stuart Major, | Cranford, N. J., | 81 H |
| a | Stabler, Edgar Hallowell, | Silver Spring, Md., | 14 H'm |
| a | Steans, Irwin Wells, | Westfield, N. J., | 81 H |
| a | Stevens, Richard Kingsbury, | Meriden, Conn., | 10 E W |
| n | Stevenson, Adlai Ewing, | Bloomington, Ill., | 64 L |
| a | Stevenson, W. E. | Princeton, N. J., | 7 E M W |
| a | Stilson, Edward, Jr., | Cortland, N. Y., | 36 H'm |
| a | Stinson, Edward, Jr., | Baltimore, Md., | 2 W M W |
| n | Storb, George Theodore, | New Holland, Pa., | 43 L |
| a | Straus, Jason, | West End, N. J., | 6 E M W |
| a | Strong, Philip Grandin, | New York, N. Y., | 4 W W |
| a | Sutton, Edmund Hegeman, | Montclair, N. J., | 32 B |
| a | Swann, Sherlock, Jr., | Baltimore, Md., | 4 E W |
| a | Tait, Robert Crittenden, | Rochester, N. Y., | 24 B |
| a | Tennant, George Grant, Jr., | Jersey City, N. J., | 10 E W |
| a | Thomson, Sanford Knapp, | New Britain, Conn., | 62 H |
| n | Tim, Louis de Jonge, | New York, N. Y., | 186 L |
| a | Todd, Webster Bray, | Summit, N. J., | 41 C |
| a | Townsend, W. S., | Denver, Colo., | 2 B |
| a | Trimble, Isaac Ridgeway, | Baltimore, Md., | 6 W W |
| a | Tucker, William Ashton, | Philadelphia, Pa., | 8 E W |
| a | Tull, H. A. | Marion, Md. | |
| a | Tuttle, Clifford Horace, Jr., | Englewood, N. J., | 1 B |
| a | Tyson, Paul Lawrence, | Princeton, N. J., | 62 H |
| a | Ulman, Morrison, | New York, N. Y., | 62 H |
| a | Vanderbogert, Jackson, | Salisbury, Md., | 124 H |
| a | VanSant, Edward Raquet, | Oxford, Pa., | 96 B |
| n | Vedder, Palmer Wallace, | Schenectady, N. Y., | 5 N E |
| n | Veeder, Harold Herit, | Schenectady, N. Y., | 21 N E |
| n | Vila, Joseph Spencer, | New York, N. Y., | 31 N E |
| n | Voorhees, Romeyn, | Plainfield, N. J., | 161 L |
| a | Wadleigh, F. R., Jr., | Washington, D. C. | |
| a | Wainwright, John T., | Philadelphia, Pa., | 12 A H |
| a | Wallace, W. H., | So. Orange, N. J. | |
| n | Wallace, James Macaulay, | Philadelphia, Pa., | 32 L |
| a | Warner, George Coffing, | New Hope, Pa., | |
| a | Warner, Robertson Young, | New York, N. Y., | 8 A H |
| n | Wasserman, W. S., | Germantown, Pa., | 34 L |
| n | Webb, Charles Grosvenor, | Wellsboro, Pa., | 61 L |

a Weiser, Horace Spengler, Decorah, Ia., 44 B
a Wells, Arthur Atkinson, Newell, W. Va., 51 C
a West, Mahlon Ogden, Chicago, Ill., 8 B H
a Wheaton, Eliot B., Princeton, N. J., 93 H
a Whitaker, Rogers Ernest Malcolm, Washington, D. C., 102 B
a White, Cleveland Stuart, New York, N. Y., 2 B H
a Will, George Bertrand, Glen Ridge, N. J., 308 H'm
a Williams, Barent Waldron, New York, N. Y., 71 H
a Williams, Ernest Harvey, Newark, N. J., 32 B
a Williams, Hamilton, Pittsburgh, Pa., 33 H
n Williamson, Ralph Elmore, Minneapolis, Minn., 41 L
Wilkes, Walter Paisley, Atlanta, Ga., 12 '79 H
a Wilshire, William Murray, East Orange, N. J., 15 C
a Wilson, Donald Orr, Binghamton, N. Y., 33 H
n Wineburgh, Henry Harold, New York, N. Y., 3 S E
n Winfield, James Macfarlane, Jr., Brooklyn, N. Y., 66 L
a Winton, Charles Joel, Jr., Minneapolis, Minn., 16 B
a Wintringer, Robert Ledlie, Steubenville, O., 15 C
a Wise, James Waterman, New York, N. Y., 14 E W
n Witherspoon, Jackson Thornwell, Jr., New Orleans, La., 44 L
n Wittmer, Albert, Jr., Pittsburgh, Pa., 68 L
a Woll, Roy Henry, Philadelphia, Pa., 1 C H'm
a Wood, Francis Clark, Wooster, O., 1 E M W
a Woods, Edward Wallis, Pittsburgh, Pa., 3 A C
a Woods, Lawrence C., Jr., Pittsburgh, Pa.,
n Woolverton, Frederick Tappen, Scarsdale, N. Y., 44 L
a Wright, Donald Murray, Cambridge, Mass., 23 B
Wright, George Cau, Lincoln University, Pa., 4 S R
a Young, DeWitt Breed, New York, N. Y., 98 B
a Young, Henry, III, Bernardsville, N. J., 12 A H
n Zabriskie, Kenneth Hastings, Oradell, N. J., 68 L

FRESHMEN..... 356

## STUDENTS QUALIFYING FOR REGULAR STANDING*

Adriazola, Nestor E., La Paz, Bolivia, 42 Wiggins St.
n Arrowsmith, Harold Walton, Orange, N. J., 8 S E
n Baldwin, Charles Hamilton, Springfield, Mo., 133 L
n Beatty, Edward Fell, Collingdale, Pa., 164 L
n Begam, Reuben, Irvington, N. J., 23 N E

* Members of the Students' Army Training Corps are designated by the prefix "a"; members of the Naval Training Unit by the prefitx "n".

n Boren, Richard Benjamin, Guilford College, N. C., 36 N E
n Brandt, Randolph, Jr., Upper Montclair, N. J., 122 E
a Chamberlain, Donald L., Washington, D. C., 16 H'm
n Conroy, Benjamin Joseph, Brooklyn, N. Y., 171 L
n Craft, Philip Charles, Baltimore, Md., 161 L
n Diemer, Gene Guthrie, Springfield, Mo., 133 L
n Donnelly, L. F., Paterson, N. J., 21 S E
n Doremus, Thomas Pete, Red Bank, N. J., 185 L
n Epstein, Emanuel, Bronx, N. Y., 24 N E
Evanns, Abner Joseph, Munria, Persia,
n Ewan, Stacy Newcomb, Jr., Millville, N. J., 30 S E
n Felstiner, William, New York, N. Y., 152 L
n Ferguson, James Pinkerton, Springfield, Mo., 133 L
a Ferguson, William Cramp, Philadelphia, Pa., 101 H
n Fesler, Joseph Dewey, Mt. Vernon, N. Y., 151 L
n Field, Geoffrey Myron, Peoria, Ill., 151 L
a Flanders, Donald Alexander, Springfield, Vt., 116 B
a Forster, Paul Victor, Fox Chase, Pa., 123 H
n Franklin, Roger Gerald, New York, N. Y., 154 L
n Frick, Richard Thomas, Sewickley, Pa., 18 S E
n Goddin, Edwin Bernard, New York, N. Y., 23 N E
n Good, Carl Filmore, South Orange, N. J., 161 L
a Graves, Edgar Baldwin, Philadelphia, Pa., 116 B
a Griggs, Earl Leslie, Spuyten Duyvil, N. Y., 115 B
n Helm, Harold Holmes, Bowling Green, Ky., 62 L
n Hendrickson, William Henry, Jr., Red Bank, N. J., 10 N E
n Hinrichs, Paul Christopher, Baltimore, Md., 161 L
a Hynson, James Nelson, Lebanon, Pa., 63 B
n Hynson, Matthew Marlowe, Philadelphia, Pa., 121 L
Ishikawa, Kin-ichi, Tokyo, Japan, 45 Vandeventer Ave.
a Jacobs, William States, Jr., Houston, Tex.
a Kane, Archibald Van Rensselaer, Kane, Pa., 50 C
n Keeler, Gilbert Brooks, East Orange, N. J., 25 S E
n Kitz-Miller, Richard Dale, Philadelphia, Pa., 121 L
a Klaren, John Hugo, New Bedford, Mass., 32 H
n Kornfeld, Morton Dewey, Richmond Hill, N. Y., 154 L
n Kurtz, Stewart S., Jr., Canton, O., 161 L
n Lacey, Harold Talbot, Binghamton, N. Y., 124 L
n Leeds, Robert Lewis, New York, N. Y., 3 S E
n Lehr, John Harry, Pottstown, Pa., 11 N E
n Letson, Walter Colburn, Stelton, N. J., 122 L

| | | | |
|---|---|---|---|
| n | Lichtenberg, A. S., | Passaic, N. J., | 154 L |
| n | Lohrke, Arthur Oakley, | East Orange, N. J., | 22 L |
| n | McAndrew, John Justin, | Paterson, N. J., | 21 S E |
| n | Mack, George Kirby, | Richmond, Va., | 14 S E |
| n | Matlock, Woodford, Absalom, Jr., | Denver, Colo., | 62 L |
| n | Mead, Arthur Ferguson, | Newark, N. J., | 15 S E |
| n | Mengert, William Felix, | Washington, D. C., | 36 S E |
| n | Miller, Irving, | New York, N. Y., | 123 L |
| n | Molloy, James Howard, | Philadelphia, Pa., | 41 L |
| n | Moore, Leonard Page, | East Orange, N. J., | 25 S E |
| n | Morris, Burton Wistar, | Roanoke, Va., | 32 N E |
| n | Nelson, Romeyn Webster, | West Pawlet, Vt., | 134 L |
| n | Nicholson, Alfred, | Moorestown, N. J., | 143 L |
| n | Nolan, Claude Vincent, | Brooklyn, N. Y., | 20 N E |
| n | Nolan, Lloyd Ambrose, | Brooklyn, N. Y., | 20 N E |
| n | Pepper, Benjamin, | New York, N. Y., | 52 L |
| a | Pessagno, Emile Anthony, | Washington, D. C., | 309 H'm |
| n | Piaget, Victor Emile, | New York, N. Y., | 132 L |
| a | Pope, Darwin Jesse, | Washington, D. C., | 11 H'm |
| n | Popkin, Maurice Herman, | New York, N. Y., | 35 S E |
| n | Pratt, Julius Randall, | Montclair, N. J., | 162 L |
| n | Reynolds, Angus Marshall, | Sanitaria Springs, N. Y., | 13 N E |
| a | Roberts, Garrett, | Montclair, N. J., | 3 B |
| n | Rogers, John Anthony, Jr., | New York, N. Y., | 151 L |
| a | Rutledge, Winston Underwood, | Anchorage, Ky., | 25 C |
| n | Schottland, George, | Paterson, N. J., | 154 L |
| n | Schutte, James Walter, | Lancaster, Pa., | 61 L |
| n | Shaw, Donald Schelefield, | New York, N. Y., | 14 N E |
| n | Shelton, Elbert Miller, | Statesville, N. C., | 21 L |
| n | Spitz, Edward, | Paterson, N. J., | 154 L |
| n | Steiner, Harry, | Newark, N. J., | 152 L |
| a | Stengel, George Douglas, | Lititz, Pa., | 3 A C |
| n | Stephens, George Robert, | Philadelphia, Pa., | 10 N E |
| a | Stevens, Lewis Miller, | Meriden, Conn., | 13 C |
| a | Stinson, Edward, Jr., | Baltimore, Md., | 2 W M W |
| n | Stude, William Carl, | Baltimore, Md., | 161 L |
| a | Waxter, Thomas Jacob Shryock, | Baltimore, Md., | 8 A H |
| n | Weinstein, Mortimer, | New York, N. Y., | 152 L |
| n | Weinstein, Samuel, | New York, N. Y., | 152 L |
| a | Welch, James Whitcomb, | Nicholasville, Ky., | 25 C |
| a | Wilbur, Bertrand Henry, | Rosemont, Pa., | 9 B |

| | | | |
|---|---|---|---|
| a Wilcox, William W., Jr., | Walden, N. Y. | | |
| a Wood, James Donald Ivar, | Wayne, Pa., | 3 | B H |
| a Wood, Robert Newlin, | Riverton, N. J., | 116 | B |
| a Wood, Thomas John, II, | Louisville, Ky., | 25 | C |
| a Work, Frederick V., | Lancaster, Pa., | 23 | B |
| a Wright, Walter Livingston, Jr., | Lincoln University, Pa., | 12 | B |
| a Young, Robert Bruce, Jr., | Fort Worth, Tex., | 33 | C |

STUDENTS QUALIFYING FOR REGULAR STANDING..... 94

## SPECIAL STUDENT

| | | | |
|---|---|---|---|
| Mellon, Richard King, | Pittsburgh, Pa., | 44 '79 | H |

SPECIAL STUDENT..... 1

## STUDENT PURSUING PARTIAL COURSES

| | | | |
|---|---|---|---|
| Hewitt, Theron, | Williamsburg, Pa., | 31 | A S |

STUDENT PURSUING PARTIAL COURSES..... 1

## STUDENTS ADMITTED ON CERTIFICATE*

| | | | |
|---|---|---|---|
| a Ackley, Elroy Wau, | East Orange, N. J., | 34 | B |
| a Addis, Roland, | Philadelphia, Pa., | 9 | A H |
| a Alpaugh, Chester Theodore, | Plainfield, N. J., | 33 | H |
| a Anderson, Harold August, | New Haven, Conn., | 131 | H |
| a Anderson, Richard VanGilder, | Philadelphia, Pa., | 27 | C |
| a Andrews, Charles Fairchild, | Trenton, N. J., | 30 | H'm |
| a Applegate, George Furman, | Cranbury, N. J., | 97 | B |
| a Arnold, Hubert Melbourne, | New York, N. Y., | 27 | H'm |
| a Arpee, Edward, | Nelsonville, O., | 132 | H |
| a Atwater, Charles D., | New York, N. Y., | 12 | H |
| a Aylward, William Robert, | Brooklyn, N. Y., | 54 | B |
| n Bachem, John H., | New York, N. Y., | 18 | S E |
| a Baker, Ralph P., | Philadelphia, Pa., | 2 | B H'm |
| a Baldwin, Marcus Decker, | New York, N. Y., | 62 | B |
| a Baldy, Henry Dimmick, | Philadelphia, Pa., | 101 | H |
| a Barnum, Milton Cody, | New Haven, Conn., | 132 | H |
| a Barrows, Kenneth Willard, | Philadelphia, Pa., | 27 | C |
| n Beers, Edward Fulton, | Newark, N. J., | 8 | N E |
| a Belknap, E. M., | Syracuse, N. Y. | | |
| a Benezet, Wilbert Livermore, | Woodbury, N. J., | 5 | A C |

* Members of the Students' Army Training Corps are designated by the prefix "a"; members of the Naval Training Unit by the prefix "n".

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|---|---|---|
| a Bennett, Elbert Lansing, | Philadelphia, Pa., | 34 C |
| a Bennett, James Harry, | Belford, N. J., | 312 H'm |
| a Bernhard, Albert Louis, | Glen Ridge, N. J., | 115 B |
| a Bertschinger, William Frederick, | East Orange, N. J., | 92 B |
| a Beyans, J. M., | San Francisco, Cal. | |
| a Bingham, John Armour, | Forest Hills, N. Y., | 21 H'm |
| a Bingham, Leslie Shaw, | Millville, N. J., | 2 A H'm |
| n Black, William Tod, | Jobstown, N. J., | 41 L |
| n Blow, Frederic Matthiessen, | La Salle, Ill., | 124 L |
| a Bogert, Harold Peter, | Westwood, N. J., | 97 B |
| n Boocock, Cornelius Brett, | Buffalo, N. Y., | 30 N E |
| n Booth, Arthur, | Brooklyn, N. Y., | 24 L |
| n Borchard, Bernard Philip, | New York, N. Y., | 182 L |
| a Botting, Harold Clark, | Brooklyn, N. Y., | 306 H'm |
| a Botting, Vincent, | Brooklyn, N. Y., | 103 H |
| a Bradley, Howard Judson, | Newark, N. J., | 65 H |
| a Bradshaw, Robert Barlet, | Haddonfield, N. J., | 3 W M W |
| n Braun, Carl John, | New York, N. Y., | 15 N E |
| a Brazell, Francis Arthur, | Syracuse, N. Y., | 82 B |
| a Breslav, W., | Hartford, Conn. | |
| a Brocklebank, Samuel Joseph, | Freehold, N. J., | 3 B H |
| a Broffe, George Leland, | New Brunswick, N. J., | 65 H |
| a Brower, Nathan Conover, | Jersey City, N. J., | 211 H'm |
| a Brown, G. N., | Philadelphia, Pa. | |
| a Bruce, Leslie Combs, | Greenwich, Conn., | 28 C |
| a Burgher, Robert Stephen, | Dallas, Tex., | 22 H |
| a Butler, F. D., | St. Paul, Minn. | |
| a Caldwell, Robert Finney, Jr., | Trenton, N. J., | 5 W M W |
| n Carpenter, Keith, | Chicago, Ill., | 182 L |
| a Carter, Clark, | Nutley, N. J., | 104 B |
| a Cartier, Harold Augustus, | Charlevoix, Mich., | 34 B |
| a Cass, Clement Earle, | Belleville, N. J., | 121 H |
| a Chambers, Glen Walter, | Palmyra, N. Y. | |
| a Chapman, Burton Hickok, | New York, N. Y., | 16 B |
| a Chapman, Charles Drake, II, | Montclair, N. J., | 76 H |
| n Colt, Leonard, Beeber, | Bronxville, N. Y., | 15 N E |
| a Compton, George Robert, | Elizabeth, N. J., | 93 B |
| a Connolly, William N. F., | Pittsfield, Mass., | 113 H |
| a Conover, I. L., | New York, N. Y. | |
| a Conover, William Hankinson, | Marlboro, N. J., | 1 E H'm |
| a Coon, H. C., | Glenridge, N. J. | |

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| a Copeland, Charles Daniel, Jr., | Greensburg, Pa., | 114 H |
| a Cordes, Victor Adolph, | Memphis, Tenn., | 103 B |
| a Cranmer, Woodburn Stanley, | Manahawkin, N. J., | 83 B |
| a Cuff, Albert Lionel, | Pittsburgh, Pa., | 11 A H |
| a Cullum, Sydney A., | Concord, N. J., | 83 B |
| a Cunningham, Howard, | Madison, Ind., | 98 B |
| a Curtin, James Clark, Jr., | New York, N. Y., | 28 C |
| a Dance, DuPre Rainey, | Corinth, Miss., | 103 B |
| a Danforth, Frederick Wilcox, | Buffalo, N. Y., | 64 H |
| a Davies, George Kalb, | Salt Lake City, Utah, | 94 H |
| a Davies, Paul Ewing, | Salt Lake City, Utah, | 94 H |
| a Davis, John Pearson, | Lexington, Tenn., | 81 B |
| n Davis, Max Donald, | Portland, Me., | 22 S E |
| n Davis, Malcolm Southard, | New York, N. Y., | 54 L |
| a Delate, Joseph Leo, | Trenton, N. J., | 12 H'm |
| a Dempsey, Robert, | Newark, N. J., | 34 B |
| a Devinney, Reynold Ireton, | Jersey City, N. J., | 24 B |
| n Dickenson, Melville Pierce, | Binghamton, N. Y., | 111 L |
| a Dittig, William Ferdinand, | Hackettstown, N. J., | 1 E H'm |
| a Donnelly, Paul Joseph, | DeKalb, Ill., | 113 B |
| n Donovan, Theodore B., | New York, N. Y., | 131 L |
| a Dunbar, John Atkinson, | New York, N. Y., | 112 H |
| a Drucker, Albert, | Chicago, Ill., | |
| n Drummond, Thomas Kenneth, | New York, N. Y., | 131 L |
| a Dyson, Thomas Priestley, | Bordentown, N. J., | 21 H'm |
| a Eddy, Herbert Harris, | New Rochelle, N. Y., | 4 B |
| a Ehret, Joseph Nicholas, | Robbinsville, N. J., | 65 C |
| a Elling, Clifford Wagner, | Somerville, N. J., | 22 B |
| a Ellis, F. C., | Swarthmore, Pa. | |
| a English, Eugene Schuyler, | Merion, Pa., | 32 H |
| n English, William Hamilton, Jr., | New York, N. Y., | 153 L |
| a Erhart, George Munson, | West Orange, N. J., | 142 H |
| a Espen, Frank Bachman, | Philadelphia, Pa., | 72 B |
| a Esposito, Charles, | Newark, N. J., | 7 A H |
| a Euwer, Paul, | Jeannette, Pa., | 12 H |
| a Evans, Ray Marshall, | Essex Fells, N. J., | 142 H |
| a Exline, Frank Johnson, | Marion, Ia., | 121 H |
| a Faries, Culbert Best, | New York, N. Y., | 62 B |
| n Feiring, Francis Clifford, | Plainfield, N. J., | 33 N E |
| n Fenton, Paul Fieldhouse, | Metuchen, N. J., | 122 L |
| a Fenton, Percival Norman, | West Collingswood, N. J., | 3 C H'm |

| | | | |
|---|---|---|---|
| a Fink, Kyle Napolean, | Mahscott, W. Va., | 95 | B |
| a Flemming, Bryan, | New York, N. Y., | 21 | B |
| n Fletcher, George Marion, | Brooklyn, N. Y., | 22 | L |
| n Flowers, Joseph Paul, | Indianapolis, Ind., | 35 N | E |
| a Foglesong, Howard Dale, | Point Pleasant, W. Va., | 61 | C |
| a Fox, Sheldon, | Ridgewood, N. J., | 11 A | H |
| n Frazier, Charles Henry, | Morristown, N. J., | 101 | L |
| a Freeman, Isadore Harold, | Newark, N. J., | 14 | H'm |
| a Frohman, Jeffrey Harold, | New York, N. Y., | 91 | H |
| a Fuld, Abram Louis, | Trenton, N. J., | 123 | H |
| a Fuller, Lawrence J., | Sewickley, Pa., | 3 A | C |
| a Gable, Herman Carson, | Melrose Park, Pa., | 2 A | H |
| a Gaede, George Frederick, | Paterson, N. J., | 64 | B |
| n Gailey, Robert Lawrence, | New York, N. Y., | 171 | L |
| a Garrett, Earle Woodward, | Woodbury, N. J., | 22 | B |
| a Gere, George Eugene, | Freehold, N. J., | 2 B | H |
| a Glover, Charles Philip, | Franklinville, N. Y., | 52 | B |
| n Goerke, Rudolph Jonathan, | Newark, N. J., | 10 S | E |
| a Goetschius, Walter Lawrence, | Stony Point, N. Y., | 132 | H |
| n Goodwin, Ralph Ingersoll, | Cleveland, O., | 64 | L |
| a Gould, John Henry, | Port Washington, N. Y., | 52 | B |
| a Gould, Sidney Dean, | Andover, Mass., | 124 | H |
| a Graham, Malcolm, Jr., | New York, N. Y., | 52 | N |
| a Graham, W. D., | McKeesrocks, Pa. | | |
| a Grummon, Charles Percy, | Newark, N. J., | 5 | B |
| n Hall, William Joseph, Jr., | Trenton, N. J., | 1 S | E |
| n Halle, Myron Ashner, | Memphis, Tenn., | 123 | L |
| a Halsted, Leonard John, | Brooklyn, N. Y., | 121 | H |
| a Hance, Theodore Frelinghuysen, | Dalton, Pa., | 122 | H |
| a Hand, Horace Bryan, | Millville, N. J., | 33 | B |
| a Hart, Charles Stanley, | Trenton, N. J., | 34 | H |
| a Hartshorne, Henry, | Phoenixville, Pa., | 52 | B |
| a Hartshorne, James, | Phoenixville, Pa., | 81 | B |
| a Harvey, P., | El Paso, Tex. | | |
| a Hathaway, Stephen Haynes, | Easton, Md., | 9 A | H |
| n Haxall, John Triplett, Jr., | Baltimore, Md., | 134 | L |
| a Hayden, Howard Creed, | Floral Park, N. Y., | 81 | B |
| a Henderson, C. P., | Denver, Colo. | | |
| a Henderson, Douglas Thornton, | Warrenton, N. C., | 21 | B |
| a Herman, Thomas William, | Cincinnati, O., | 62 | B |

| | | | |
|---|---|---|---|
| a | Heyman, Theodore Seymour, | New York, N. Y., | 1 A H'm |
| n | Higgs, Charles William, | Maplewood, N. J., | 32 S E |
| a | Hill, William George, | Baltimore, Md., | 51 C |
| n | Hill, W. H., | Cape May, N. J., | 14 S E |
| a | Hinlein, Stanley Harry, | Philadelphia, Pa., | 82 B |
| a | Hoag, Gilbert Thomas, | Haverford, Pa., | 305 H'm |
| a | Hollander, Isador Henry, | Brooklyn, N. Y., | 44 C |
| a | Hoopes, John Robinson, | West Chester, Pa., | 3 B H'm |
| a | Howells, Henry Coggeshall, | New York, N. Y., | 65 H |
| a | Huhn, Tevis, | Philadelphia, Pa., | 6 A C |
| n | Hundley, Arthur Faxon, | Baltimore, Md., | 134 L |
| a | Jackson, James Everett, Jr., | New Bedford, Mass., | 64 B |
| a | James, Edmund Humphries, | Brooklyn, N. Y., | 82 H |
| a | James, Samuel Newell, | South Amboy, N. J., | 103 B |
| a | Jamieson, William Michael, Jr., | Trenton, N. J., | 74 B |
| a | Jamison, W. S., | Saranac Lake, N. Y. | |
| a | Jarvis, Ronald, | Red Bank, N. J., | 64 B |
| a | Jefferies, John Howard, Jr., | Narberth, Pa., | 7 B |
| a | Jett, Richard Scudder, | Richmond, Ky., | 82 H |
| a | Joyce, Morton Dean, | New York, N. Y., | 27 C |
| a | Kamsler, Milton Adolph, | Philadelphia, Pa., | 114 B |
| a | Kane, Evan O'Neill, | Kushequa, Pa., | 1 D H'm |
| a | Karig, W. R., | Glenridge, N. J. | |
| a | Kay, David Alexander, | West Chester, Pa., | 3 B H'm |
| a | Kearny, Thomas Henry, | Edgemont, Pa., | 311 H'm |
| a | Keefer, Lawrence Victor, | Catawissa, Pa., | 14 H'm |
| n | Kennedy, George Flemming, | Youngstown, O., | 33 S E |
| a | Keogh, Frank Belfort, | Chicago, Ill., | 91 B |
| a | Ketting, Edward Ogden, | Brooklyn, N. Y., | 11 B |
| a | King, D. M., | Pittsburgh, Pa. | |
| n | Knoblock, William Valentine, | Mount Vernon, N. Y., | 16 L |
| a | Kolbe, Karl William, | Passaic, N. J., | 82 H |
| a | Koszynski, Louis, | New York, N. Y. | 121 H |
| a | Kraiss, William Albert, | Belleville, N. J., | 11 H'm |
| a | Krips, James Albert Clyde, | Collingswood, N. J., | 91 B |
| a | Kushner, Frank, | Wilkes Barre, Pa., | 103 H |
| a | LaMarche, A. H., | New York, N. Y. | |
| a | Law, Francis Marion, Jr., | Houston, Tex., | 3 E M W |
| a | Lawshe, Thurston Van Ness, | Newark, N. J., | 72 B |
| n | Lee, Norton Dorman, | Detroit, Mich., | 171 L |
| a | Leighton, Paul Alexander, | Columbus, O., | 98 B |

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|---|---|---|---|
| a | Leuba, Clarence James, | Bryn Mawr, Pa., | 114 B |
| a | Lewis, Robert King, | Honey Brook, Pa., | 133 H |
| a | Link, Samuel Benajah, | Stamford, Conn., | 10 A H |
| n | Lohman, James Pierre, | West Orange, N. J., | 34 S E |
| a | Loos, George William, Jr., | Haddonfield, N. J., | 6 A C |
| a | Loskin, Abraham Paul, | Jamaica, N. Y., | 13 A H |
| a | McBride, Allan Spencer, | Newark, N. J., | 93 B |
| n | McCabe, George Evans, | Baltimore, Md., | 29 S E |
| n | McCaull, Robert Nelson, | Minneapolis, Minn., | 43 L |
| n | Machlett, Raymond Robert, | New York, N. Y., | 18 N E |
| a | Malloy, John Augustus, | Trenton, N. J., | 10 A H |
| a | Mandell, Joseph, | Pittsburgh, Pa., | 10 A H |
| n | Marsh, John Hutchison, | Ocean Grove, N. J., | 162 L |
| a | Martino, E. M., | Trenton, N. J. | |
| a | Meara, Edward Francis, | Trenton, N. J., | 5 W M W |
| a | Megahan, James Harold, | Williamsport, Pa., | 114 H |
| n | Meyer, Theodore Henry, | Newark, N. J., | 3 N E |
| a | Miller, John Malcolm, | Elizabeth, N. J., | 63 C |
| a | Miller, LeRoy Baldwin, | Indianapolis, Ind., | 64 B |
| n | Miller, Walter Scott, | Brooklyn, N. Y., | 143 L |
| a | Millikin, Dudley Long, | Cleveland, O., | 74 B |
| a | Morris, Thomas Edward, | Cheltenham, Pa., | 116 B |
| a | Morton, John Dwight, | Roxbury, Mass., | 54 C |
| a | Moser, Paul David, | New York, N. Y., | 6 A H |
| a | Mount, Thomas Flippin, | Somerville, Tenn., | 81 B |
| n | Mulford, William Webb, Jr., | Salem, O., | 11 S E |
| n | Murrey, Frank Lester, | Nashville, Tenn., | 131 L |
| a | Nelson, Rowe Hampton, | Drexel Hill, Pa., | 51 H |
| a | Normandeau, Roger Donald, | Westwood, N. J., | 134 H |
| a | Ohl, Raymond Theodore, | Ardmore, Pa., | 23 B |
| a | Ozias, Ramon Egner, Jr., | Newark, N. J., | 2 B H'm |
| a | Page, Charles Greenleaf, | Washington, D. C., | 12 W W |
| a | Page, Henry, Jr., | Washington, D. C., | 12 W W |
| a | Papier, Philip Britton, | Trenton, N. J., | 44 H |
| a | Pardoe, William Ewart, | Princeton, N. J., | 91 H |
| a | Parrish, Hugh Roberts, | Philadelphia, Pa., | 1 A H |
| n | Payne, Calvin Nathaniel, II, | Erie, Pa., | 142 L |
| n | Pearson, Hartley Orchard, | Montclair, N. J., | 52 L |
| a | Perry, Willard Parker, | Titusville, N. J., | 43 B |
| a | Pfeiffer, Delbert, | Millville, N. J., | 54 B |
| n | Phillips, Howard Vincent, | Greenwich, Conn., | 68 L |

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|---|---|---|---|
| a | Porter, Lawrence Tupper, | Halifax, N. S., | 123 H |
| a | Price, A. L., | Brooklyn, N. Y. | |
| a | Price, Charles Pucy, | West Orange, N. J., | 142 H |
| n | Prince, Charles Edward, | Baltimore, Md., | 3 N E |
| n | Pross, Wilbur Jacob, | Montrose, Pa., | 162 L |
| a | Purdy, Earl Morris, | Nutley, N. J., | 104 B |
| n | Raleigh, T. L., | Syracuse, N. Y., | 17 S E |
| a | Ramsay, G. D., | Sharon, Pa. | |
| a | Ream, Walter Lesley, | Trenton, N. J., | 2 C H'm |
| a | Reed, Orville Sanford, | Van Wert, O., | 44 B |
| a | Reed, R. S., | Lackawanna, N. Y., | 4 E W |
| a | Rhodes, Stuart Auchincloss, | New York, N. Y., | 84 H |
| a | Riccardi, Gerard, | Newark, N. J., | 9 A H |
| a | Richter, Walter Lewis, | Baltimore, Md., | 84 B |
| a | Rieck, Harry Evans, | Millville, N. J., | 33 B |
| a | Riegel, William Ely, | Philadelphia, Pa., | 112 H |
| a | Rinsky, Harry, | Newark, N. J., | 42 B |
| a | Robbins, Edward Coles, | Haverford, Pa., | 131 H |
| a | Robertson, Walter, Jr., | East Orange, N. J., | 44 B |
| a | Robinson, H. Copeland, | Lakeville, Conn., | 8 B H |
| a | Roemer, Edwin Louis, | East Orange, N. J., | 34 B |
| n | Roessler, Ernest, | Chicago, Ill., | 186 L |
| n | Rogers, Cornwell B., | New York, N. Y., | 124 L |
| n | Rosenblatt, Mort David, | Cleveland, O., | 25 N E |
| n | Rothenberg, Richard Lewis, | New York, N. Y., | 63 L |
| a | Rumsey, Albert, | Westwood, N. J., | 134 H |
| a | Russell, R. J., | Denver, Colo. | |
| a | Rutt, Edwin Gould, | Montclair, N. J., | 98 B |
| a | Saums, William Alton, | Trenton, N. J., | 76 H |
| n | Sadowsky, Carl Robert, | New York, N. Y., | 182 L |
| n | Scarpino, David, | Mount Vernon, N. Y., | 36 N E |
| a | Schaefer, Rudolp Jay, | Larchmont, N. Y., | 24 B |
| a | Schell, John, | Somerset, Pa., | 122 H |
| n | Schilling, William A., | Newark, N. J., | 8 N E |
| n | Schlotter, Raymond Charles, | Philadelphia, Pa., | 11 N E |
| a | Schmertz, L. R., | Jeannette, Pa. | |
| a | Schmidt, Harold Herman, | Belleville, N. J., | 34 H |
| a | Schroeder, L. E., | Chatham, N. J. | |
| a | Scovill, J. S., | Cleveland, O. | |
| a | Shivers, James Horace, | Millville, N. J., | 2 A H |
| n | Shuman, Frank Randolph, | Philadelphia, Pa., | 28 S E |

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| a | Singleton, E. L., | New York, N. Y. | |
| a | Skelding, Henry Titus, | Southbury, Conn., | 2 D H |
| a | Stearns, Sherman, | Lake Bluff, Ill., | 2 B |
| a | Stephen, A. H., | Trenton, N. J., | 3 C H'm |
| a | Stevens, George Henderson, | Melrose Park, Pa., | 2 B |
| n | Stevenson, Allen Byron, | Beaver, Pa., | 111 L |
| a | Stewart, Sam Taylor, | Bradford, Pa., | 32 C |
| a | Stout, Arthur Gifford, | West New Brighton, N. Y., | 76 H |
| n | Stout, William Howard, | Fort Scott, Kan., | 66 L |
| a | Straight, Daniel Burt, | Keeseville, N. Y., | 31 H |
| n | Swenson, Oscar, | Arlington, N. J., | 61 L |
| a | Taft, Charles Orrin, Jr., | Morgan, N. J., | 124 H |
| n | Talcott, Dudley Vaill, | Hartford, Conn., | 42 N E |
| a | Taylor, William Renwick, | Brooklyn, N. Y., | 61 B |
| n | Terry, James Hendrick, | New York, N. Y., | 64 L |
| a | Thompson, Earl Aubrey, | Memphis, Tex., | 91 B |
| a | Thompson, Homer Shean, | Memphis, Tex., | 91 B |
| a | Todd, Julian Archibald, | Princess Anne, Md., | 41 B |
| a | Townsend, John Edmund, | Brooklyn, N. Y., | 12 A H |
| a | Trimble, George Lucien, | Newark, N. J., | 43 B |
| a | Tuttle, William Gerard, | New York, N. Y., | 8 B H |
| a | Twinem, Francis Patten, | Jewett, O., | 22 B |
| a | Vanderburgh, Charles Edwin, | Minneapolis, Minn., | 12 B |
| n | Van Mater, Joseph Appleton, | Plainfield, N. J., | 30 N E |
| a | Vogel, Rudolph Emerson, | Milwaukee, Wis., | 72 B |
| a | Wagner, Chester Stryker, | Somerville, N. J., | 12 A H |
| a | Wallace, John Emery, | Kansas City, Mo., | 91 B |
| n | Walters, Harold Emerson, | New York, N. Y., | 22 N E |
| n | Wartels, Lester, | New York, N. Y., | 23 L |
| a | Watson, Alexander Halliday, | East Orange, N. J., | 64 H |
| a | Weatherby, Benjamin B., | Millville, N. J., | 101 H |
| a | Weishaar, W. C., | Williamsport, Pa., | |
| a | West, LeRoy White, | Hightstown, N. J., | 65 C |
| n | Wever, Edward Hooper, | New York, N. Y., | 184 L |
| a | White, Harlan Lee, | Asheville, N. C., | 32 B |
| n | Whitehead, Charles Franklin, | Kansas City, Mo., | 111 L |
| a | Wigton, John Lloyd, | Philadelphia, Pa., | 32 H |
| a | Willett, Henry Lee, | Philadelphia, Pa., | 21 B |
| a | Williams, Richard Donaldson, | New York, N. Y., | 2 A H |
| a | Willyoung, Elmer Grant, | Ridgewood, N. J., | 34 H |
| n | Winter, Charles William, Jr., | Mount Vernon, N. Y., | 16 L |

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|---|---|---|---|
| a Wobcke, Wallace Robert, | Jersey City, N. J., | 3 | W M W |
| n Woodruff, Victor Dewey, | Nutley, N. J., | 29 | N E |
| a Wyncoop, John Estill, | Philadelphia, Pa., | 96 | B |
| a Yawitz, Samuel, | Newark, N. J., | 34 | H |
| a Young, Edward Theron, | St. Paul, Minn., | 1 | A C |
| n Zabriskie, William L, | New York, N. Y., | 71 | L |

STUDENTS ADMITTED ON CERTIFICATE..... 312

# GENERAL SUMMARY

## Officers of Instruction and Administration

| | | |
|---|---|---|
| Trustees | 35 | |
| Faculty and Instructors | 163 | |
| Assistants in Instruction | 3 | |
| Officers of Administration | 15 | |
| | | 216 |

## Students

### Graduate School

| | | |
|---|---|---|
| Fellows | 5 | |
| Graduate Scholar | 1 | |
| Students on Full Time | 3 | |
| Students on Part Time | 20 | |
| | | 29 |

### School of Electrical Engineering

| | | |
|---|---|---|
| Second Year | 0 | |
| First Year | 0 | |
| | | 0 |

### Undergraduates

Senior Class

| | | |
|---|---|---|
| Students' Army Training Corps | 21 | |
| Naval Training Unit | 18 | |
| Non-Military | 13 | |
| | | 52 |

Junior Class

| | | |
|---|---|---|
| Students' Army Training Corps | 55 | |
| Naval Training Unit | 43 | |
| Non-Military | 9 | |
| | | 107 |

Sophomore Class

| | | |
|---|---|---|
| Students' Army Training Corps | 117 | |
| Naval Training Unit | 63 | |
| Non-Military | 10 | |
| | | 190 |

| | | |
|---|---|---|
| Freshman Class | | |
| Students' Army Training Corps | 245 | |
| Naval Training Unit | 83 | |
| Non-Military | 28 | |
| | | 356 |
| Students Qualifying for Regular Standing | | |
| Students' Army Training Corps | 27 | |
| Naval Training Unit | 64 | |
| Non-Military | 3 | |
| | | 94 |
| Special Student | 1 | |
| Student Pursuing Partial Courses | 1 | |
| Students Admitted on Certificate | | |
| Students' Army Training Corps | 241 | |
| Naval Training Unit | 70 | |
| Non-Military | 1 | |
| | | 312 |
| Total undergraduates 1918-19 | | 1113 |

| Students' Army Training Corps | | Naval Training Unit | |
|---|---|---|---|
| Seniors | 21 | Seniors | 18 |
| Juniors | 55 | Juniors | 43 |
| Sophomores | 117 | Sophomores | 63 |
| Freshmen | 245 | Freshmen | 83 |
| Qualifying | 27 | Qualifying | 64 |
| On certificate | 241 | On certificate | 70 |
| | 706 | | 341 |

| Non-Military | |
|---|---|
| Seniors | 13 |
| Juniors | 9 |
| Sophomores | 10 |
| Freshmen | 28 |
| Qualifying | 3 |
| Special | 1 |
| Partial | 1 |
| On certificate | 1 |
| | 66 |

## Summary

| | |
|---|---|
| Students' Army Training Corps | 706 |
| Naval Training Unit | 341 |
| Non-Military | 66 |
| Total undergraduates 1918-19 | 1113 |
| Graduate School | 29 |
| Electrical School | 0 |
| Total Students 1918-19 | 1142 |

# SUMMARY OF STUDENTS BY STATES

| | G. | Sr. | Jr. | So. | Fr. | Q. | Sp. | Par. | Cf. | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| New Jersey | 4 | 13 | 29 | 49 | 79 | 22 | 0 | 0 | 103 | 299 |
| New York | 1 | 14 | 21 | 46 | 98 | 22 | 0 | 0 | 75 | 277 |
| Pennsylvania | 6 | 14 | 21 | 39 | 56 | 18 | 1 | 1 | 56 | 212 |
| Maryland | 3 | 3 | 3 | 8 | 17 | 5 | 0 | 0 | 8 | 47 |
| Ohio | 2 | 1 | 7 | 8 | 12 | 1 | 0 | 0 | 11 | 42 |
| Illinois | 0 | 1 | 5 | 5 | 16 | 1 | 0 | 0 | 7 | 35 |
| Massachusetts | 1 | 0 | 1 | 6 | 11 | 1 | 0 | 0 | 4 | 24 |
| Dist. of Columbia | 0 | 2 | 2 | 1 | 11 | 4 | 0 | 0 | 2 | 22 |
| Connecticut | 0 | 0 | 2 | 0 | 5 | 1 | 0 | 0 | 9 | 17 |
| Minnesota | 0 | 1 | 0 | 2 | 8 | 0 | 0 | 0 | 4 | 15 |
| Missouri | 1 | 0 | 2 | 1 | 5 | 3 | 0 | 0 | 2 | 14 |
| Texas | 0 | 0 | 0 | 4 | 3 | 2 | 0 | 0 | 5 | 14 |
| Colorado | 0 | 0 | 2 | 2 | 3 | 1 | 0 | 0 | 2 | 10 |
| Michigan | 1 | 0 | 0 | 3 | 4 | 0 | 0 | 0 | 2 | 10 |
| Tennessee | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 5 | 9 |
| Delaware | 0 | 0 | 3 | 3 | 2 | 0 | 0 | 0 | 0 | 8 |
| Indiana | 0 | 0 | 1 | 2 | 2 | 0 | 0 | 0 | 3 | 8 |
| Kentucky | 0 | 0 | 1 | 0 | 2 | 4 | 0 | 0 | 1 | 8 |
| North Carolina | 1 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 2 | 6 |
| Virginia | 3 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 6 |
| Georgia | 0 | 0 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 5 |
| Louisiana | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 4 |
| South Carolina | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 4 |
| California | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 3 |
| Mississippi | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 3 |
| Washington | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 3 |
| West Virginia | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 3 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Arkansas | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
| Alabama | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 2 |
| Iowa | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 2 |
| Nebraska | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| New Hampshire | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| North Dakota | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Utah | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| Vermont | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 |
| Wisconsin | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 |
| Florida | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Idaho | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Kansas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Maine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Rhode Island | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| South Dakota | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Canada | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 |
| Japan | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 |
| Bolivia | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| Norway | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Persia | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| Russia | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | 29 | 52 | 107 | 190 | 356 | 94 | 1 | 1 | 312 | 1142 |

# ABBREVIATIONS

A S, Alexander Hall, Seminary.
B, Blair Hall.
B S, Brown Hall, Seminary.
C, Campbell Hall.
C'y, Cuyler Hall.
E B, East Entry, David Brown Hall.
E M W, East Middle Entry, Witherspoon Hall.
E W, East Entry, Witherspoon Hall.
G C, Graduate College.
H., Holder Hall.
H'm, Hamilton Hall.
H S, Hodge Hall, Seminary.
L., Stafford Little Hall.
L P, Lower Pyne Building.
M D, Middle Entry, Albert B. Dod Hall.
N, Nassau Hall.
N D, North Entry, Albert B. Dod Hall.
N E, North Entry, Edwards Hall.
N E, North Middle Entry, Reunion Hall.
N R, North Entry, Reunion Hall.
N W, North Entry, West College.
P, Patton Hall.
S D, South Entry, Albert B. Dod Hall.
S E B, South East Entry, David Brown Hall.
S E, South Entry, Edwards Hall.
S M R, South Middle Entry, Reunion Hall.
S R, South Entry, Reunion Hall.
S W, South Entry, West College.
S W B, South West Entry, David Brown Hall.
U P, Upper Pyne Building.
W B, West Entry, David Brown Hall.
W M W, West Middle Entry, Witherspoon Hall.
W W, West Entry, Witherspoon Hall.
'79 H, Seventy-nine Hall.

# DIRECTORY

## OF OFFICERS AND STUDENTS IN ALL DEPARTMENTS OF THE UNIVERSITY

The name of every officer is printed in SMALL CAPITALS. The number in parenthesis after the name indicates the page in the catalogue on which the name appears.

The names of students are followed by the designation of their several classes (*f*, Fellow; *g*, Graduate Student; *Sr.*, Senior; *Jr.*, Junior; *So.*, Sophomore; *Fr.*, Freshman; *q*, Student Qualifying for Regular Standing; *Par.*, Student Pursuing Partial Course; *Sp.*, Special Students; *Cf.*, Students Admitted on Certificate.

The abbreviations of the residences of Officers and students are found on page 415.

Aaron, Marcus L., *Jr.* 2 W W
ABBOTT, F. F., *Professor* (22) 62 Battle Rd.
Ackley, Elroy W., *Cf.* 34 B
ADAMS, E. P., *Professor* (22) Absent
Addis, Roland T., *Cf.* 9-A H
Adler, James L., *Fr.* 63 H
ADRIANCE, W. M., *Ass't Professor* (26) Absent
Adriazola, N. E., *q* 42 Wiggins St.
Alden, J., *Cf.*
Aldridge, Clayson W., *Fr.* 53 B
ALEXANDER, J. W., *Lecturer* (31) Absent
Aford, K. W., *Sr.* 11 '79 H
Allison, J., *So.*, 36 L
Alpaugh, C. T., *Cf.* 33 H
Anderson, D. C., *Jr.* 301 H'm
Anderson, H. A., *Cf.* 131 H
Anderson, John O., *Fr.* 92 B
Anderson, Malcolm E., *Fr.* 93 H
Anderson, R. V., *Cf.* 27 C
Andrade, G. W. R., *Fr.* 144 L
Andrews, Charles F., *Cf.* 3 C H'm
Applegate, G. F., *Cf.* 97 B
ARMSTRONG, E. L., *Professor* (25) Absent
Armstrong, J. N., Jr., *Jr.* 71 B
Arnold, H. M., *Cf.* 27 H'm
Arpee, Edward, *Cf.* 132 H
Arrowsmith, H. W., *q* 8 S E
Arrowsmith, Noel, *Cf.* 4 W M W
Arrowsmith, W. W., *Sr.* 21 L
Astorite, E. M., *Cf.*
Atkinson, C. U., *So.* 16 C
Atwater, C. D., *Cf.* 2 D H
Auerbach, P. S., *Fr.* 19 S E
Aylward, William R., *Cf.* 54 B

Bachem, J. H., *Cf.* 18 S E
Baer, H. M., *Sr.* 62 '79 H
Baird, W. J., Jr., *Jr.* 185 L
Baker, Albert DeR., *Fr.* 1 E M W
Baker, R. P., *Cf.* 2-B H'm
Baker, W. B., *So.* 112 L
Baker, W. R., Jr., *Sr.* 21 L
Baldwin, C. H., *q* 133 L
Baldwin, M. D., *Cf.* 62 B
Baldy, H. D., *Cf.* 101 H
Ballard, Jonathan Y., *Fr.* 3 E M W
Barbee, E. L., *So.* 2-C H'm
Barclay, W. L., Jr., *So.* 131 H
Barnes, A. S., *Fr* 9 S M R
Barnum, Milton C., *Cf.* 132 H
Barr, Alfred H., *Fr.* 3 E W
Barringer, B., *So.* 32 C
Barringer, Daniel M., *So.* 71 B
Barrows, K. W., *Cf.* 27 C
Bartlett, W., Jr., *Fr.* 12 N E
Bartow, T. W., *So.* 308 H'm

Joseph H., *Fr.* 103 B
J. W., *Ass't Professor* 101 Library Pl.
J., *Ass't Professor* (29) Absent
, G. L. T., *Sr.*
ville, A. P., *Jr.* 23 S E
te, James E., *Fr.* 132 H
ewis T., *So.* 95 B
J. H., Jr., *Jr.* 181 L
, E. F., *q* 164 L
el, J. G., *Jr.* 42 L
, E. F., *Cf.* 8 N E
m, R., *q* 23 N E
gs, G. E., *Ass't Professor* (29) 78 Jefferson Rd.
h, A. T., *Cf.*
t, F. L., *Fr.* 186 L
NDER, H. H., *Professor* (25) 120 Fitz Randolph Rd.
nedict, T. H., *So.* 310 H'm
nnett, E. L., *Cf.* 34 C
nnett, J. H., *Cf.* 312 H'm
enson, Julius M., *So.* 12 B
erdich, John E., *Fr.* 1-C H'm
Bernhard, Albert L., *Cf.* 115 B
Berry, George P., *So.* 300 H'm
Bertschinger, W. F., *Cf.* 92 B
Bethell, Richard S., *Fr.* 2 E W
Bickford, J. D., *f* 24 Dickinson St.
Billings, C., *Fr.* 308 H'm
Bingham, John A., *Cf.* 21 H'm
Bingham, L. S., *Cf.* 2-A H'm
Bitten, R. M., *Sr.* 30 So. Wilton St.
Black, W. T., *Cf* 41 L
Blackwell, F. O., *So* 310 H'm
Blake, E. B., *Fr* 12 H
Blake, Theo. D., *Fr.* 142 H
BLAU, M. F., *Professor* (24) 42 Princeton Ave.
Blauvelt, H. B., *Jr.* 26 C
Blaw, J., *g* Trenton, N. J.
Blow, F. M., *Cf.* 124 L
Bluntschli, Robert W., *So.* 63 H
Bogert, A. C., *Fr.* 11 H'm
Bogert, Harold P., *Cf.* 97 B
Bolton, Wm. J., *Cf.* 72 B
Boocock B., C., *Cf.* 30 N E
Booth, A., *Cf.* 24 L
Borchard, B. P., *Cf.* 182 L
Boren, R. B., *q* 36 N E
Boteler, Elijah S., Jr., *So.* 134 H
Botting, H. C., *Cf.* 306 H'm
Botting. Vincent, *Cf.* 103 H
Bouma, C., *g* 21 B S
BOUTROUX, P. E., *Professor* (24) Absent
Bovaird, George, *Fr.* 4 W W
BOWMAN, A. A., *Professor* (24) Absent
Bowman, J. W., *g* 15 A S
Boyce, J. C., *Fr.* 5 N M R
Bradley, Howard J., *Cf.* 102 H
Bradshaw, Robert D., *Cf.* 3 W M W
Brandt, R., Jr., *q* 122 L
Braun, C. J., *Cf* 15 N E
Braunlein, J. H., *g* 2 A S
Brawner, Alexander H., *So.* 65 B
Bray, A. R. *Sr.* 61 '79 H
Brazell, Francis A., *Cf.* 82 B
Brenner, L. J., *Fr.* 172 L
BRIGHAM, C. C., *Instructor* (32) Absent
Brocklebank, S. J., *Cf.* 3-B H
Brodhead, James E., *Fr.* 32 H
Broffe, George L., *Cf.* 102 H
Brooks, W. H., Jr., *Jr.* 112 L
Brower, Nathan, *Cf.* 311 H'm
Brown, Benjamin N., *So.* 143 H
Brown, Beverly M., *Fr.* 123 H
Brown, J. N., *Fr.* 15 S M R
BROWN, P. M., *Professor* (25) Absent
Browning, Samuel P., *Fr.* 4 E M W
Blodgett, Lorin T., *Fr.* 16 E W
Bruce, L. C., *Cf.* 28 C
Brush, John M., *So.* 65 B
Brussaly, M., *Fr.* 11 With. St.
Bryan, G. P., *So.* 21 C
Buck, J. C., *Fr.* 2-A H
Buechner, C. F., Jr., *Jr.* 112 L
Buechner, R., *Fr.* 172 L
BUFFUM, D. L., *Professor* (23) 60 Hodge Rd.
Burgher, R. S., *Cf.* 22 H
Burke, J. L., *Jr.* 112 L
Burns, L. S., *So.* 181 L
Bushnell, A. S., *So.* 181 L

Butcher, Alexander S., *So.* 95 B
BUTLER, H. C., *Professor* (21) Wyman House G C

Caldwell, Robert F., *Cf.* 5 W M W
Callahan, H. A., *So.* 111 L
Callender, D. B., *Fr.* 31 L
Callison, S. A., *Jr.* 23 S E
Cameron, D. K., *Fr.* 111 L
Campbell, A. B., *Fr.* 163 L
Campbell, H. S., *So.* 163 L
Cannon, Rudolph A., *Jr.* 2-B C
CAPPS, E., *Professor* (21) Absent
Carey, A. Morris, *Fr.* 81 H
CARNOCHAN, J. McD., *University Physician* (35) The Infirmary
CAROTHERS, N., *Ass't Professor* (30) Absent
Carpenter, K., *Cf.* 182 L
Carpenter, Lucien B., *Fr.* 4 W M W
Carrick, Charles L., *Jr.* 72 H
Carroll, T. F., *f.* 24 Dickinson St.
Carter, Burnham, *Fr.* 5 W W
Carter, Clark, *Cf.* 104 B
Carter, W. S., *So.*
Cartier, Harold A., *Cf.* 34 B
CARY, L. R., *Ass't Professor* (30) 36 Wiggins St.
Case, Everet N., *Fr.* 5 W W
Casey, C. M., *Sr.* 11 '79 H
Cass, Clement C., *Cf.* 121 H
CAWLEY, R. S., *Dept. Librarian* (265) Guyot Hall
Chamberlain, D. L., *Cf.* 16 H'm
Chamberlin, P. M., *Jr.* 21 L
Chambers, Glen W., *Cf.* 114 H
Chapman, B. H., *Cf.* 16 B
Chapman, Charles D., *Cf.* 76 H
CHAPMAN, P. A., *Instructor* (31) Absent
Cisco-Smith, G., *So.*
Clancy, E. C., *Cf.*
Clark, A., *Fr.* 121 L
Clark, B., 3rd, *Fr.* 7 N M R
Clark, Maurice E., *Jr.* 11-A H
Clark, W. L., *Sr.* 53 '79 H
Clarke, A. H., *So.* 1-B H'm
Coffin, Rogers C., *Fr.* 16 B
Cohen, R. S., *Sr.* 24 L
Cohn, Bertrand W., *Jr.* 71 H
Coit, G. S., *Fr.* 123 L
Collins, E. M., *Fr.* 4 N M R
COLLINS, V. L., *Professor* (23) 214 The Western Way
Collinson, Harry N., *Fr.* 96 B
Colt, L. B., *Cf.* 15 N E
Compton, George R., *Sr.* 93 B
COMPTON, K. T., *Ass't Professor* (29) Absent
Compton, W. R., *Jr.* 112 L
Comstock, George C., *So.* 71 H
CONDIT, K. H., *Instructor* (31) Absent
CONKLIN, E. G., *Professor* (22) 139 Broadmead
Conklin, S. E., *Cf.*
Conner, Jr., *So.* 3-A H
Connolly, William N. F., *Cf.* 113 H
Conover, A. E., Jr., *So.* 3-A H'm
Conover, W. H., *Cf.* 1-E H'm
Conroy, B. J., *q* 171 L
CONSTANT, F. H., *Professor* (25) 57 Battle Rd.
Cook, George J., *Fr.* 11-A H
COOKE, H. L., *Ass't Professor* (27) Absent
Copeland, Charles D., Jr., *Cf.* 114 H
Corbett, Frank T., *So.* 92 B
Corcoran, Francis L., *Fr.* 8-A H
Cordes, Victor A., Jr., *Cf.* 103 B
CORWIN, E. S., *Professor* (23) 115 Prospect Ave.
COSGRAVE, J. S., *Ass't to Treasurer* (35) Stanhope Hall
Cossum, R. W., *So.* 36 L
Cottier, Hamilton, *Fr.* 12 H
COTTON, H. A., *Lecturer* (31) Trenton, N. J.
Cotton, J. P., *Jr.* 22 H
COTTRELL, W. R., *Supt. of Circulation* (265) University Library
Cover, L. A., Jr., *So.* 72 L
COVINGTON, H. F., *Professor* (23) 24 Edghill St.
Cowan, A. J., *Fr.* 23 '79 H
Cowan, J. B., *Jr.* 33 N E
Cowan, Percy B., *So.* 114 H
Craft, P. C., *q* 161 L
CRAM, R. A., *Supervising Architect* (16) Boston, Mass.

Cramer, William E. W., *Fr.* 12-A H
Cramp, William, *Fr.* 4 W W
Crane, Louis B., *Fr.* 5 W M W
Cranmer, W. S., *Cf.* 83 B
Creasey, S. B., *So.* 122 L
Creswell, Hugh, *Fr.* 7 E W
CRITCHLOW, F. L., *Ass't Professor* (26) 6 Mercer St.
Croll, Joseph D., *So.* 75 H
CROLL, M. W., *Ass't Professor* (26) 6 N R
Crouse, C. I., *So.* 184 L
CUDE, H. E., *Assistant,* 54 Murray Pl.
Cudlipp, C., *Sr.* 24 '79 H
Cudlipp, W. A., *Fr.* 31 N E
Cuff, Albert L., *Cf.* 11-A H
Cullum, Sydney A., *Cf.* 83 B
Cunningham, Allen, *Fr.* 22 H
Cunningham, Howard, *Cf.* 98 B
Curley, S. P., *Cf.*
Curtin, J. C., Jr., *Cf.* 28 C
Curtis, G. H., *So.* 3-A H'm
Curtiss, John S., *So.* 101 H
Cushing, L. J., *Fr.* 143 L
Cushman, Larimer A., Jr., *Cf.* 34 C
Cushman, Lewis A., Jr., *Fr.* 113 H

DAHLGREN, U., *Professor* (23) 7 Evelyn Pl.
Dance, Dupre R., *Cf.* 103 B
Dane, N. B., *Jr.* 15 L
Danforth, F. Wilcox, *Cf.* 64 H
Daniels, R. B., *Fr.* 3-B H
Dater, J. Y., *So.* 183 L
Davidson, D. B., *g* 15 A S
Davies, George K., *Cf.* 94 H
Davies, Paul E., *Cf.* 94 H
Davis, J. E., *So.* 13 C
Davis, John P., *Cf.* 81 B
Davis, M. D., *Cf.* 22 S E
Davis, M. S., *Cf.* 54 L
Davis, P. H., *So.* 58 Mercer St.
DAVIS, R., *Supt. of Grounds and Buildings* (35) Stanhope Hall
Dean, Prentice N., *Jr.* 22 H'm
de Coningh, E. H., *Fr.* 34 '79 H
Delate, Joseph L., *Cf.* 12 H'm
DeMaris, F. A., Jr., *Jr.* 6 N M R
Dempsey, Robert S., *Cf.* 34 B
Denby, C., Jr., *Fr.* 163 L
DENEGRE, J. D., *Trustee* (16) St. Paul, Minn.
Dennis, J. P., *Jr.* 11 H'm
Denniston, Robert, Jr., *So.* 51 B
DeStefano, F. W., *Fr.* 34 N E
Devinney, Reynold I., *Cf.* 24 B
Dew, Walter A., *So.* 95 B
DEWING, H. B., *Ass't Professor* (30) Absent
DEWITT, J., *Trustee* (15) Princeton, N. J.
Dibert, Grant A., *Cf.* 106 H
Dickinson, Hunt T., *Fr.* 32 H
DICKINSON, M. P., *Cf.* 111 L
Diemer, G. G., *q* 133 L
Dilworth, Harrison P., Jr., *Jr.* 74 B
DIRKS, H. B., *Ass't Professor* (30) 80 Jefferson Rd.
Dittig, W. F., *Cf.* 1-E H'm
DIXON, J., *Trustee* (15) Trenton, N. J.
Dixon, J. P., *Cf.* 14 H'm
Dodd, S. T., *Jr.* 309 H'm
Dodd, Stewart, *Fr.* 3 W M W
Donnelly, L., *Sr.* 3 S R
Donnelly, L. F., *q* 21 S E
Donnelly, P. J., *Cf.* 113 B
Donner, C. H., *Jr.* 22 H'm
Donohue, F. M., *So.* 143 L
Donovan, T. B., *Cf.* 131 L
Doremus, T. P., *q* 185 L
Douglas, D., *Fr.* 113 H
Downs, Donald, *Fr.* 16 W W
Drummond, T. K., *Cf.* 131 L
Ducas, Robert, *Cf.* 12 E W
DUFFIELD, H. G., *Treasurer* (16) Stanhope Hall
DUGAN, R. S., *Ass't Professor* (27) 40 Patton Ave.
Dulles, F. R., *So.* 33 C
Dunkak, W. H., *Fr.* 8 N M R
Dunn, E. K., *Fr.* 131 L
Dunn, E. S., *Fr.* 154 L
Dunn, John F., *Fr.* 3 E W
During, Maurice P., *Fr.* 104 H
Dyer, Addison L., *Fr.* 21 H'm
Dyson, T. P., *Cf.* 21 H'm

Earnshaw, G. L., *Cf.*
Eckfeldt, E. H., Jr., *Fr.* 32 S E

Eddy, H. H., *Cf.* 4 B
Edmunds, H. S., *g* 13 A S
Eggenberger, J. B., *Fr.* 1 S M R
Egner, H. F., *Jr.* 1 B
Ehret, J. N., *Cf.* 65 C
EISENHART, L. P., *Professor* (22) 25 Alexander St.
ELDERKIN, G. W., *Ass't Professor* (28) Absent
Elling, C. W., *Cf.* 22 B
Engle, J. R., *Fr.* 2-C H
English, E. S., *Cf.* 32 H
English, W. H., Jr., *Fr.* 153 L
ENO, H. L., *Research Associate* (31) 78 Stockton St.
EPPLEY, *M., Lecturer* (31) Absent
Epstein, E., *q* 24 N E
Erdmann, S., *Fr.* 52 C
Erhart, G. M., *Cf.* 142 H
Espen, F. B., *Cf.* 72 B
Esposito, C.,*Cf.*
Euwer, P., *Cf.* 12 H
Evans, R. M., *Cf.* 142 H
Evanns, A. J., *q*
Ewald, E. C., *Fr.* 7-A H
Ewan, S. N., Jr., *q* 30 S E
Ewing, T. D., *So.* 7 W W
Exline, F. J., *Cf.* 121 H
Eynon, G. L., *Jr.* 2-B C

Faries, C. B., *Cf.* 62 B
Farr, H. A., *So.* 16 H'm
FARR, M. S., *Ass't Professor* (26) Absent
Farr, W. R., *So.* 61 C
FARRAND, B., *Consulting Landscape Gardener* (16) New Haven, Conn.
FARRAND, W., *Trustee* (16) South Orange, N. J.
Faulkner, J. F., *Cf.*
Fawcett, A. H., *Jr.,* 22 L
Fawcett, J. H., *So.* 11 C
Fay, E. B., *Fr.* 9 E W
Feiring, F. C., *Cf.* 33 N E
Felsteiner, W., *q.* 152 L
Fenton, P. F., *Cf.* 122 L
Fenton, P. N., *Cf.* 3-C H'm
Ferguson, J. P., *q* 133 L
Ferguson, W. C., *Cf.* 101 H
Fesler, J. D., *q* 151 L
FETTER, F. F., *Professor* (23) Absent
Field, G. M., *q* 151 L
Fierlein, J. B., *Fr.* 16 E W
FINE, H. B., *Dean of the Departments of Science* (19) 73 Library Pl.
Fink, K. N., *Cf.* 95 B
FINNEY, J. M. T., *Trustee* (15) Baltimore, Md.
Fisher, H. R., *So.* 92 B
FITE, W., *Professor* (25) 138 FitzRandolph Rd.
Flaig, J. V., *Jr.* 2-A H'm
Flanders, D. A., *Cf.* 116 B
FLEECE, C. L., *Instructor* (31) 45 Patton Ave.
FLEMING, M. E., *Trustee* (16) New York, N. Y.
Fleming, R. M., *Fr.* 51 C
Flemming, B., *Cf.* 21 B
Fletcher, G. M., *Cf.* 22 L
Flinn, I. M., Jr., *So.* 43 H
Flowers, J. P., *Cf.* 35 N E
Foglesong, H. D., *Cf.* 61 C
Forbes, D. S., *Fr.* 16 S M R
Forbes, J. A., *Fr.* 73 B
Forbes, R. L., *So.* 56 C
FORD, H. J., *Professor* (22) 42 Cleveland Lane
Foresman, D. B., *So.* 36 C
Forster, P. V., *Cf.* 123 H
Fort, J. G., *Fr.* 21 N E
Foster, R. H., *So.* 42 L
FOSTER, W., *Professor* (22) 41 Battle Rd.
Fowler, John, *Fr.* 5 E M W
Fox, Sheldon, *Cf.* 11-A H
Foy, J. A., *Cf.*
Frank, H., *Fr.*
Franklin, R. G., *q* 154 L
Franz, J. N., *Jr.* 53 C
Frazier, C. H., *Fr.* 101 L
Freeman, I. H., *Cf.* 14 H'M
FRICK, H. C., *Trustee* (15) Pittsburgh, Pa.
Frick, R. T., *q* 18 S E
Fringer, D. L. B., *Jr.* 22 H'm
FRITTS, F., *Ass't Professor* (30) Absent
Frohman, J. H., *Cf.* 91 H
Frost, J. S., *Fr.* 16 B

Fuld, A. L., *Cf.* 123 H
Fuller, L. J., *Cf.* 3-A C
Fuller, P., 2nd, *Fr.* 62 '79 H
Furey, Rankin, *Fr.* 16 W W
Furness, G. W., *So.* 12 C

Gable, H. C., *Cf.* 2-A H
Gaede, G. F., *Cf.* 64 B
Gaffney, H. B., *So.* 46 L
Gailey, R. L., *Cf.* 171 L
GALT, G. McF., *Secretary of the Bureau of Student Self-Help* (35) 32 Mercer St.
Garnaus, C. E., *Jr.* 92 H
Garrett, E. W., *Cf.* 22 B
GARRETT, R., *Trustee* (15) Baltimore, Md.
Garrick, H. F., *Fr.* 13 S E
Garrity, M. H., *Fr.* 53 H
Garvey, C. P., *Fr.* 122 H
GAUSS, C., *Professor* (21) 106 FitzRandolph Rd.
Gaylord, P. E., *Fr.* 21 H
Gehman, J. L., *g.* 201 H S
Gere, G. E., *Cf.* 2-B H
GEROULD, G. H., *Professor* (25) Absent
Gerstley, H. E., *Jr.* 63 L
Getze, E. B., Jr., *Fr.* 54 B
Gibbony, D. C., Jr., *Sr.* 13 N M R
Gifford, N. D., Jr., *Cf.* 3 B
Gilfillan, J., *So.* 121 L
GILLESPIE, W., *Professor* (23) 12 Bank St.
Glenn, R., *Cf.*
Glover, C. P., *Cf.* 52 B
Goddin, E. B., *q* 23 N E
Goerke, R. J., Jr., *Cf.* 10 S E
Goetschius, W. L., *Cf.* 132 H
Goldman, R. S., *Sr.* 24 L
Good, C. F., *q* 161 L
GOODRICH, C. F., *Commandant Naval Training Unit* (25) 120 Broadmead
Goodspeed, J. H., Jr., *Fr.* 54 L
Goodwin, R. I., *Cf.* 64 L
Gotshalk, D. W., *Fr.* 64 '79 H
Gotshalk, W. C., Jr., *So.* 13 S M R
Gould, Edward, *Fr.* 6 E W
Gould, E. W., Jr., *Fr.* 52 '79 H
Gould, J. H., *Cf.* 52 B
Gould, S. D., *Cf.* 124 H
Graham, M., *Cf.* 52 B
Graham, T., *Fr.* 142 L
Grandin, F. S., *So.* 300 H'm
Graves, E. B., *Cf.* 116 B
Gray, J. H., *Jr.* 62 L
GREEN, H. W., *Trustee* (15) Trenton, N. J.
Greenleaf, G. E., *Jr.* 13 '79 H
Greey, E. B., *So.* 312 H'm
Griffin, P. F., *Fr.* 124 H
Griffiths, W. D., *Sr.* 115 B
Griggs, E. L., *q* 115 B
Groce, W. C., *Fr.* 1 W W
Groel, F. H., *So.* 101 L
Grogan, W. H., *Fr.* 8-A H
GROSS, H., *Infirmarian* (35) McCosh Infirmary
Grummon, C. P., *Cf.* 5 B

Hackney, H. H., *Fr.* 74 H
Haffner, W. B., *Sr.* 185 L
Haines, C. H., *So.* 31 C
Haines, H. S., *Cf.* 311 H'm
Hale, C., Jr., *So.* 16 C
Hale, W. E., *Fr.* 142 L
Hall, A. P., *Fr.* 5 B
HALL, C. P., *Ass't Professor* (29) 94 Bayard Lane
Hall, S. E., *So.* 22 '79 H
HALL, W. P., *Ass't Professor* (29) Absent
Hall, W. J., Jr., *Cf.* 1 S E
Halle, M. A., *Cf.* 123 L
Halliburton, R., *So.* 46 L
Halsted, L. J., *Cf.* 121 H
Hamilton, A. K., *Fr.* 93 H
Hamilton, R. L., *Jr.* 22 L
HAMMOND, E. S., *Instructor* (32) 72 University Place
Hand, H. B., *Cf.* 33 B
HANDY, P. D., *Trustee* (15) New York, N. Y.
Hanson, E. L., *So.* 106 Nassau St.
Hardin, P. C., *Fr.* 182 L
Haring, N. W., *Cf.* 84 B
Harlin, J. M., *Jr.* 141 L
HARPER, G. M., *Professor* (20) 36 Mercer St.
Harris, A. K., *Sr.* 66 H
HARRIS, W. B., *Professor* (20) Greehnolm
Harrison, E. P. H., *Fr.* 6 E W

Hart, H. C., *Fr.* 8 E W
Hart, S. C., *Cf.* 34 H
Harth, H. C. P., *So.* Trenton, N. J.
Hartshorne, H., *Cf.* 52 B
Hartshorne, J., *Cf.* 81 B
Hartshorne, R., *Jr.* 22 C
HARVEY, E. N., *Ass't Professor* (29) 38 Washington Rd.
Harvey, H. A., *So.* 18 L
Hax, W. B. F., *Sr.* 51 '79 H
Haxall, J. T., *Cf.* 134 L
Hayden, H. C., *Cf.* 81 B
HEERMANCE, R., *Ass't Professor* (28) Absent
Helm, H., *So.* 172 L
Helm, H. H., *q* 62 L
Henderson, D. T., *Cf.* 21 B
Henderson, R. L., *Fr.* 34 S E
Hendrickson, W. H., Jr., *q* 10 N E
HENRY, B., *Trustee* (15) Philadelphia, Pa.
Hensel, H. S., *Fr.* 1 W M W
Herman, T. W., *Cf.* 62 B
Herndon, E. T., *So.* 38 L
Hewitt, T., *Par.* 31 A S
Heyman, T. S., *Cf.* 14 H'm
HIBBEN, J. G., *President* (18) Prospect
Higgs, C. W., *Cf.* 32 S E
Highley, P. H., *Fr.* 182 L
Hill, W. G., *Cf.* 51 C
Hill, W. H., *Cf.* 14 S E
Hillegass, C. E., *Sr.* 2-D H
Hills, C. B., *Fr.* 104 B
Hinlein, S. H., *Cf.* 82 B
Hinrichs, P. C., *q* 161 L
Hoag, G. T., *Cf.* 305 H'm
Hoge, F. E., *So.* 2-B H
Hole, W. E., *Fr.* 105 H
Hollander, G. C., *Fr.* 23 L
Hollander, I. H., *Cf.* 44 C
Holt, R. S., *Fr.* 1 E M W
Holmes, E., *Fr.* 105 H
Hooper, R. P., Jr., *Fr.* 111 L
Hoopes, J. R., *Cf.* 3-B H'm
Hopkins, D. L., *So.* 72 L
Hornsey, J. W., Jr., *So.* 141 L
Horton, A. W., Jr., *Jr.* 22 C
HOSKINS, J. P., *Professor* (24) 22 Bank St.
Houck, L. D., *Jr.* 164 L
HOWARD, S. E., *Ass't Professor* (30) 35 Jefferson Rd.
HOWELL, B. F., *Instructor* (32) Absent
Howell, J. W., Jr., *Fr.* 64 '79 H
Howells, H. C., *Cf.* 102 H
Hubbell, G. S., *f* 24 Dickinson St.
Hughes, W. D. F., *Cf.* 41 C
Huhn, T., *Cf.* 6-A C
HULETT, G. A., *Professor* (22) 44 Washington Rd.
Hundley, A. F., *Cf.* 134 L
HUNT, T. W., *Professor* (18) 72 Library Pl.
HURD, F. L., *Dept. Librarian Economics* (265) University Library
Hurst, W. B., *Fr.* 74 H
HUSS, H. C. O., *Professor* (19) 6 Bank St.
Hussey, J., *Fr.* 3 W M W
Hutchinson, J. D., *Fr.* 102 H
HUTSON, F. L., *Ass't Professor* (26) The Bachelors'
Hynson, J. N., *q* 63 B
Hynson, M. M., *q* 121 L

Irons, W. G., 2nd, *Fr.* 33 L
Ishikawa, K., *q* 45 Vandeventer Ave.

Jackson, J. E., *Cf.* 64 B
Jackson, S. A., *Jr.* 31 '79 H
Jackson, S. B., *Fr.* 101 B
Jacobs, A. D., *So.* 16 H'm
JACOBUS, M. W., *Trustee* (15) Hartford, Conn.
James, E. H., *Cf.* 104 H
James, N. S., *Cf.* 103 B
Jamieson, W. M., *Cf.* 74 B
Jarvis, R., *Cf.* 64 B
Jefferies, J., Jr., *Cf.* 7 B
Jeffers, G. S., *So.* 84 H
Jenkins, A. E., *Sr.* 26 S E
Jett, R. S., *Cf.* 104 H
Johnson, A. D., *Sr.* 75 H
JOHNSON, A. C., *Ass't Professor* (28) 34 Bank St.
Johnson, G. R., *g* 311 H S
Johnson, H. D., *Jr.*, 33 L
JOHNSON, H. S., *Trustee* (16) Cleveland, O.
JOHNSON, R. B. C., *Professor* (22) 129 Broadmead

Johnson, R. L., *Fr.* 52 L
Johnson, W. F., *Jr.* 309 H'm
Jones, L. W., *Fr.* 74 H
Joyce, M. D., *Cf.* 27 C
Kaltenbach, H. K., *Cf.* 4 W W
Kamsler, M. A., *Cf.* 114 B
Kane, A. V. R., *Cf.*
Kane, E. O., *Cf.* 1-D H'm
Karig, W. R., *Cf.* 115 B
Kay, D. A., *Cf.* 3-B H'm
Kearny, T. H., *Cf.* 311 H'm
Keefer, L. V., *Cf.* 1-A H'm
Keeler, G. B., *q* 25 S E
Keeney, M., *Fr.* 73 B
Kelley, E. B., *So.* 2 W M W
Kelley, M., *So.* 71 L
Kelly, J. P., *g* 33 Maple St.
KEMMERER, E. W., *Professor* (24) 128 FitzRandolph Rd.
KENNEDY, C. W., *Ass't Professor* (27) Absent
Kennedy, E. S., *Sr.* 9 S E
Kennedy, G. F., *Cf.* 33 S E
Kent, R. E., *So.* 61 H
Kent, W. R., *Fr.* 6-A H
Keogh, F. B., *Cf.* 91 B
Kerr, C. M., *So.* 31 L
Ketcham, F. S., *Jr.* 16 S E
Kilby, T. E., *So.* 122 H
Kimball, L. W., *g* New Brunswick, N. J.
King, H. G., *Fr.* 34 N E
Kinsley, W., *Fr.* 7 E W
Kirk, R., *Fr.* 102 B
Kitz-Miller, R. D., *q* 121 L
Klaren, J. H., *Cf.* 32 H
Kleffman, A. H., *g* 213 H S
Klipstein, K. H., *So.* 132 L
Kloppenburg, W. B., *Sr.* 54 B
KNAUTH, O. W., *Ass't Professor* (29) Absent
Kneedler, W. H., *Fr.* 34 C
Knoblock, W. V., *Cf.* 16 L
Knowles, G. M., *Fr.* 103 H
Kolbe, K. W., *Cf.* 104 H
Konno, Y., *Par.* 61 '79 H
Kopp, E. C., Jr., *So.* 16 H'm
KOREN, W., *Ass't Professor* (26) 105 FitzRandolph Rd.
Kornfeld, M. D., *q* 154 L
Koszynski, L., *Cf.* 121 H
Kraffert, B. F., *Cf.* 106 H
Kraiss, W. A., *Cf.* 11 H'm
Kretschman, P. M., *Sr.* 33 B
Krips, J. D., *Cf.* 91 B
Kurth, E. H., *q* 305 H'm
Kurtz, S. S., Jr., *q* 161 L
Kuser, J. L., *Jr.* 18 S E
Kushner, F. S., *Cf.* 103 H
LaBranche, G. M. L., Jr., *Fr.* 71 B
Lacey, H. T., *q* 124 L
Laflin, L. E., Jr., *Fr.* 74 B
Laird, C. W., *Jr.* 62 C
Lamb, D. S., *Fr.* 133 H
Lane, E. R., *Cf.*
Lane, N. T., *Fr.* 51 C
Latrobe, G., Jr., *Jr.* 33 '79 H
Law, F. M., *Cf.* 3 E M W
Lawrence, G. A., *Jr.* 185 L
Lawrence, R. N., *So.* 61 H
Lawshe, T. V., *Cf.* 72 B
LEACH, H. S., *Acting Reference Librarian* (31) Absent
Lee, N. D., *Cf.* 171 L
Lee, P. L., *Cf.*
Lee, R. W., *Jr.* 16 S E
Leeds, R. L., *q* 3 S E
Leggett, H. A., *So.* 184 L
Leh, J. H., *So.* 41 C
Lehr, J. H., *q* 11 N E
Leighton, P. A., *Cf.* 98 B
Leinbach, L. R., *Cf.* 311 H'm
Leon, J. H., *Fr.* 42 '79 H
Letson, W. C., *q* 122 L
Leuba, C., Jr., *Cf.* 114 B
Lewis, J. F., Jr., *So.* 111 L
Lewis, R. K., *Cf.* 133 H
LIBBEY, W., *Professor* (18) Absent
Lichtenburg, A. S., *q.* 154 L
Lindabury, R. V., Jr., *So.* 16 C
Link, S. B., *So.* 10-A H
Litch, R. B., *So.* 51 L
Livingston, J., *Fr.* 16 E W
Loeb, M. B., *Fr.* 82 B
Logan, R. L., *g* 38 A S
Lohman, J. P., *Cf.* 34 S E
Lohrke, A. O., *q.* 22 L
Long, H. J., *Fr.* 12 E W
LONGWELL, H. C., *Ass't Professor* (30) 91 Mercer St.
LOOMIS, E. H., *Professor* (20) 302 Nassau St.
Loos, G. W., Jr., *Cf.* 6-A C

Loose, A. S., *So.* 24 H'm
Lopez, J. M., *Fr.* 11 C
Loskin, A. P., *Cf.* 13-A H
Loucheim, W. C., Jr., *Jr.* 63 L
Love, G. H., *Fr.* 6-A H
LUEHRING, F. W., *Ass't Professor* (28) 110 New Moore St.
Lundell, R. S., *Cf.*
Lyons, E. J., *Fr.* 18 L

McAlpin, D. H., 3rd, *Jr.* 141 L
McAndrews, J. J., *q* 21 S E
McBride, A. S., *Cf.* 93 B
McBride, W. P., *Fr.* 52 C
McCABE, D. A., *Ass't Professor* (27) Absent
McCabe, G. E., *Cf.* 29 S E
McCain, L. D., *Fr.* 7 S M R
McCamant, T., *Fr.* 8 W W
McCarthy, F., *Fr.* 4 E W
McCaull, R. N., *Cf.* 43 L
McCAY, L. W., *Professor* (19) 12 Morven St.
McCLELLAN, G. B., *Professor* (24) Absent
McCLENAHAN, H., *Dean of the College,* Joseph Henry House, College Pl.
McClenahan, J. M., *Fr.* 31 B
McCLURE, C. F. W., *Professor* (20) 12 Morven St.
McCLURE, H. E., *Cf.*
MacColl, A. M., *So.* 16 C
McCOMAS, H. C., Jr., *Ass't Professor* (28) Absent
McCord, R. F., *Fr.* 4 S E
McCORMICK, C. H., *Trustee* (15) Chicago, Ill.
Mac Cready, W. B., *Fr.* 52 C
McCulloch, D., Jr., *Sr.* 34 L
McCulloch, R. M., *So.,* 153 L
McCulloh, G., *So.* 36 L
McDonald, A. D., *Fr.* 19 N E
McDONALD, F. C., *Ass't Professor* (26) Absent
McDonnell, J. S., Jr., *So.* 2-C H
McELROY, R. M., *Professor* (22) Absent
McFerran, W. B., *Fr.* 6 B
Machlett, R. R., *Cf.* 18 N E
McIlvaine, W. B., Jr., *Fr.* 171 L
MacIlwain, G. I., *Fr.* 4 B
MACINNES, C. R., *Ass't Professor* (27) 12 Vandeventer Ave.
McJunken, E. K., *Fr.* 14 E W
Mack, G. K., *q* 14 S E
McKee, R. D., *Sr.* 183 L
McKinnon, H. D., *So.* 24 H'm
McKnight, F. H., *Fr.* 7-B H
McLaughlin, R. W., Jr., *So.* 51 L
MACLAREN, M., *Professor* (22) Absent
MACLOSKIE, G., *Professor* (18) 239 Nassau St.
McLean, E. O., *Fr.* 53 L
McMahon, J. H., *Fr.* 1 E M W
McMillan, A., *Fr.* 1 W M W
McMILLAN, C., *Professor* (18) 40 Bayard Lane
McPhee, W. S., *Fr.* 103 H
McPHERSON, S. J., *Trustee* (15) Lawrenceville, N. J.
McWilliams, J., *Trustee* (16) Los Angeles, Cal.
MAGIE, D., *Professor* (23) Absent
MAGIE, W. F., *Dean of the Faculty* (19) The Dean's House
Magonigle, G. B., *So.*
Mahaffy, R. S., *So.* 75 H
Malloy, J. A., *Cf.* 10-A H
Manchee, A. L., *Fr.* 7-A H
Mandel, D., *Sr.* 84 B
Mandell, J. L., *Cf.* 10-A H
Mansfield, R. H., *Fr.* 35 L
Mapletoft, R. S., *Fr.* 24 S E
MARDEN, C. C., *Professor* (25) 35 Edghill St.,
Marks, J., *Jr.* 309 H'm
MARQUAND, A., *Professor* (19) Guernsey Hall
Marsh, J. H., *Cf.* 162 L
Marsh, O. T., *Fr.* 1 W M W
Martin, E. H., *So.* 310 H'm
MARTINS, C., *Supt. of Purchase* (265) University Library
Massey, W. E., Jr., *Fr.* 171 L
MATHER, F. J. Jr., *Professor* (22) Absent
Mathis, E. C., *Fr.* 53 L
Matlock, W. A., Jr., *q* 62 L
Matthews, H. F., *So.* 54 L
Matthews, T., *Fr.* 8 E W
Matthews, W. R., *So.* 94 H
Maxwell, E. L., *Fr.* 9 B

Maxwell, J. C., *Sr.* 183 L
Mayo, C. W., *So.* 308 H'm
MAYOR, A. G., *Lecturer* (31) 276 Nassau St.
Mayor, A. H., *Fr.* 39 N E
Mead, A. F., *q* 15 S E
Mead, V. C., *So.* 142 L
Meara, E. F., *Cf.* 5 W M W
Megahan, J. H., *Cf.* 114 H
Mellis, D. B., *Fr.* 9 B
Mellon, R. K., *Sp.* 44 '79 H
Mengert, W. F., *q* 36 S E
MENZIES, A. W. L., *Professor* (24) 187 Prospect Ave.
Meriwether, G., Jr., *Cf.* 64 H
Merrifield, R. E., *So.* 112 B
Merritt, S., *Fr.* 62 B
Metcalf, R. B., *Fr.* 13 L
Metzger, R. S., *So.* C 56
Meyer, M., *So.* 82 B
Meyer, T. H., *Cf.* 3 N E
Middleditch, F. A., *Sr.* 54 B
Mihm, M. C., *Fr.* 172 L
Miles, H. H., *Cf.*
MILES, L. W., *Ass't Professor* (26) Absent
Miller, C. R., *Fr.* 43 L
Miller, E. K., *Fr.* 12 H
Miller, H. K., *Jr.* 301 H'm
Miller, I., *q.* 123 L
Miller, J. M., *Cf.* 63 C
Miller, L. B., *Cf.* 64 B
Miller, L. S., *So.* 143 L
Miller, W. S., *Cf.* 143 L
Millholland, J. A., *Fr.* 11 H'm
Milliken, D. L., *Cf.* 74 B
Milne, S. W., *Fr.* 112 H
Milne, W. K., *So.* 41 N E
Mish, J. D., *So.* 143 H
Molloy, C. J., *So.* 141 L
Molloy, J. H., *q* 41 L
Montgomery, J .S., *Jr.*
Moore, D. D., *So.* 2-C H'm
Moore, J. L., *Cf.* 2-C H'm
Moore, L. P., *q* 25 S E
MORE, P. E., *Lecturer* (31) 245 Nassau St.
MOREY, C. R., *Professor* (25) 342 Nassau St.
Morgan, A. P., *Fr.* 13 L
Morgan, R. P., *Fr.* 32 L
MORGAN, S. W., *Instructor* (32) Absent
Morgan, T. V., *Jr.* 31 L
Morgan, W. L., *Jr.* 25 C
Morgan, W. L., *Fr.* 6 A C
Morris, B. W., *q* 32 N E
Morris, H. A., *So.* 3-A H'm
Morris, T. E., *Cf.* 116 B
Morrow, L. B., *Fr.* 64 L
MORSE, A. E., *Ass't Professor* (30) Absent
Morton, J. D., *Fr.* 41 B
Morton, J. R., *Cf.* 54 C
Moser, P. D., *Cf.* 6-A H
Mossman, W. S., *Jr.* 62 C
Motter, L. V., *Cf.* 4 E M W
Mount, T. F., *Cf.* 81 B
Mueller, S. R., *Fr.* 1 N E
Mulford, W. W., Jr., *Cf.* 11 S E
MUNRO, D. C., *Professor* (25) 119 Fitz Randolph Rd.
MURCH, H. S., *Ass't Professor* (28) 14 '79 H
Murray, G., Jr., *So.* 84 H
Murray, J. W., *So.* 18 L
Murrey, F. L., *Cf.* 131 L
Murtland, W., *Fr.* 53 H
Myers, D. G., *Fr.* 41 B
Myers, F., *Fr.* 3-B H'm
MYERS, W. S., *Professor* (25) 104 Bayard Lane

Nathan, A. M., Jr., *Fr.* 13 L
Neely, H. C., *g* 32 A S
NEHER, F., *Professor* (21) 54 Hodge Rd.
Nelden, A. G., *Fr.* 68 L
NELSON, O. A., *Assistant* (32) 231 Nassau St.
Nelson, R. H., *Cf.* 51 H
Nelson, R. W., *q* 134 L
NEVILLE, H. A., *Assistant* (32) 28 Vandeventer Ave.
Newlin, R. S., *Fr.* 4 W M W
Nichols, G. H., *Fr.* B 5
Nicholson, A., *q* 143 L
Nolan, C. V., *q.* 20 N E
Nolan, L. A., *q* 20 N E
Normandeau, R. D., *Cf.* 134 H
Norris, H. S., *So.* 112 B
North, J. P., *Fr.* 12 W W
NORTHRUP, E. F., *Ass't Professor*

(28) Absent
Norton, A. L., *Sr.* 9 S E
Norton, P. R., *Sr.* 91 H
Noyes, A., *Professor* (24) Princeton, N. J.

O'Hagan, G. T., *Cf.*
Ohl, R. T., *Cf.* 23 B
O'Neill, J. R., *Jr.* 132 L
Opie, H. R., *So.* 51 L
Orth, P. W., *Sr.* 51 '79 H
Osborn, J. D., *Fr.* 123 L
Osborn, W. C., *Trustee* (15) New York, N. Y.
Osborne, R. R., *So.* 15 L
Osgood, C. G., *Professor* (24) 12 Nassau St.
Oxholm, T., *Fr.* 23 '79 H
Ozias, R. E., *Cf.* 2-B H'm

Paddock, B. H., *So.* 183 L
Paddock, T. F., *So.* 183 L
Page, C. G., *Cf.* 12 W W
Page, F. L., *Fr.* 11 H'm
Page, H., *Cf.* 12 W W
Page, L. R., *Sr.* 112 L
Page, R. L., *Jr.* 92 H
Palmer, A. P., *Fr.* 3 E M W
Palmer, R. S., *So.* 102 B
Papier, P. P., *Cf.* 44 H
Pardoe, W. E., *Cf.* 91 H
Parker, C., III, *Jr.* 33 '79 H
Parrish, H. R., *Cf.* 1-A H
Parrott, L. M., *So.* 9 N M R
Parrott, T. M., *Professor* (20) 104 Mercer St.
Parry, J. S., *Jr.* 92 H
Paton, S., *Lecturer* (30) Absent
Patton, F. L., *Ex-President* (18) Hamilton, Bermuda
Paxton, W. M., 3d, *Sr.* 71 L
Payne, C. N., *Cf.* 142 L
Pearson, H. O., *Cf.* 52 L
Pearson, J. A., *Commandant Students' Army Training Corps* (25) A B
Peck, G. M., *Gen. Ass't in Charge of Special Libraries, Substitute Reference Librarian* (265) University Library
Penfield, T. B., *So.* 26 C
Penney, R., *Fr.* 5 E M W
Pepper, B., *q* 52 L
Perry, E. R., *So.* 41 H
Perry, W. P., *Cf.* 43 B
Pershing, J., *So.* 73 H
Pessagno, E. A., *Cf.* 309 H'm
Pfeiffer, D., *Cf.* 54 B
Phillips, A. H., *Professor* (21) 54 Hodge Rd.
Phillips, F. M., *Fr.*
Phillips, H. V., *Cf.* 68 L
Piaget, V. E., *q* 132 L
Pitney, J. O. H., *Trustee* (15) Morristown, N. J.
Platt, D. F., *Lecturer* (31) Englewood, N. J.
Poe, J. P., *Fr.* 3 W W
Pope, D. T., *Cf.* 11 H'm
Pope, E. S., *Fr.* 3 W W
Pope, J. N., *So.* 72 H
Popkin, M. H., *q* 33 S E
Porteous, R. E., *Jr.* 91 H
Porter, B. P., *Fr.* 2 W M W
Porter, C., *Fr.* 43 B
Porter, L. T., *Cf.* 123 H
Post, F. L., *Fr.* 2-C H
Powell, W. A., Jr., *Fr.* 12 S E
Powers, W. L., *Jr.* 2-B C
Pratt, J. R., *q* 162 L
Prentice, W. K., *Professor* (21) Absent
Pressinger, W. B., Jr., *Fr.* 132 L
Price, C. P., *Cf.* 142 H
Priest, G. M., *Professor* (24) 10 Nassau St.
Prince, C. E., Jr., *Cf.* 3 N E
Prioleau, W. H., *Cf.* 3-A H
Procter, W. C., *Trustee* (15) Cincinnati, O.
Proctor, L. M., *Sr.* 54 C
Pross, W. J., *Cf.* 162 L
Purdy, E. M., *Cf.* 104 B
Pyne, M. T., *Trustee* (15) Princeton, N. J.

Quinn, F., *Cf.*

Rabinowitz, S. M., *So.* 42 B
Rafalsky, R. L., *Jr.* 133 L
Rahn, E. F., *So.* 21 C
Raleigh, T. L., *Cf.* 17 S E
Ralston, J. V., *Sr.* 33 B
Ramee, A. R., *So.* 172 L

Ramsay, J. B., *Fr.* 6 W W
RANKIN, W. M., *Professor* (20) 5 Evelyn Pl.
Ravenel, D., Jr., *Fr.* 31 L
Rawlings, J. M., *So.* 24 B
RAYCROFT, J. E., *Professor* (23) Absent
Raynolds, A., *Fr.* 13 W W
Ream, W. L., *Cf.* 3-C H'm
Reed, E. K., *Fr.* 4 S M R
Reed, H. B., II, *Jr.* 33 L
Reed, O. S., *Cf.* 44 B
Reed, R. S., *Cf.* 4 E W
Reeser, E. I., *Fr.* 7-B H
Reeve, W. S., *Fr.* 9-A H
Riechner, A., *So.* 12 C
Reynolds, A. M., *q* 13 N E
Reynolds, E. B., Jr., *Fr.* 66 L
Reynolds, J. M., *Fr.* 1 E W
Reynolds, L. C., *Jr.* 111 H
Rhodes, C. E., Jr. *So.* 36 L
Rhodes, R. P., *So.* 111 B
Rhodes, S. A., *Cf.* 111 H
Riccardi, G., *Cf.* 9-A H
RICHARDSON, E. C., *Librarian* (19) 220 Mercer St.
RICHARDSON, H., *Trustee* (16) Atlanta, Ga.
Richardson, H. I., *Fr.* 22 H
Richardson, H. M., *So.* 23 L
Richardson, W. P., *Fr.* 43 '79 H
Richter, W. L., *Cf.* 84 B
Rickert, T. H., *Jr.* 23 C
RICKETTS, L. D., *Trustee* (15) Warren, Ariz.
Rieck, H. E., *Cf.* 33 B
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